

Kato Ernest Henry

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## SUMMARY

I am a seasoned full-stack developer with over 5 years of experience, specializing in Python, Django, Flask, JavaScript, and PHP. My expertise spans both backend and frontend development, allowing me to create robust and dynamic web applications.

## PERSONAL PROJECTS

### DFCU Loans API

- This is an API for a banking institution in Uganda called DFCU Bank. The API returns information about current loans and outstanding loans.
- Technologies: Flask, Python, Bootstrap, HTML5, CSS3, JavaScript
- Link: <https://bitbucket.org/ernesthenry/dfcu-loans-api/src/master/>

iReporter — iReporter is a python flask web application that enables any/every citizen to bring any form of corruption to the notice of appropriate authorities and the general public. Users can also report on things that need government intervention. iReporter is an App that is aimed at solving this.

- Technologies: Python, Flask, Heroku, Travis CI, Code Climate, Coveralls
- Link: <https://github.com/ernesthenry/iReporterAPI>

Django discussion forum — This is a django web application that facilitates online discussions for students at universities. Students can post questions and receive feedback on their questions

- Technologies: Python, Django, HTML5, CSS3, JavaScript
- Links: <https://github.com/ernesthenry/django-discussion-forum>

Personal portfolio — This is a personal website with details about my work as a developer.

- Technologies: React, Bootstrap, HTML5, CSS3, JavaScript
- Link: <http://ernesthenry.github.io/me>

## SKILLS

5 years : HTML5, CSS3, JavaScript, React, React native, Node.js, Express JS, DOM, JQuery, Python, Java, MySQL, Postgres, Firebase, MongoDB, Flask, Django, PHP, API Development and Documentation, Server Deployment, Data Modeling, Redis, SQL, Wordpress, Design Patterns, Oracle, Data Structures and algorithms, SOLID principles, Agile methodology, RESTful APIs

4 years: IoT, AI, Machine Learning, Deep learning, C++, Vue.js, C#, API development, Java, Typescript, Springboot, Wordpress, JIRA, Linux, Apache, Nginx, C#, .Net

3 years: Hibernate, Docker, AWS, Kubernetes, Identity Access Management, prometheus, Amazon EC2, Amazon EBS, Amazon Lightsail, Golang, GraphQL, Laravel, Flutter, Apollo, Microsoft SQL Server, Azure

< 2 years: Angular, Junit, Odo framework, Junit, Mockito, Electron, Kotlin, Ruby on Rails

## LANGUAGES

English, Luganda

Chirper — This is a twitter clone app

- Technologies: React, redux, JSX, CSS3, Webpack, Ajax
- Link: <http://ernesthenry.github.io/chiper>

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React interface — This is a web app for making appointments for pet medicine

- Technologies: React, lodash, Bootstrap, CSS3, HTML5
- Link: <http://ernesthenry.github.io/reactinterface>
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Prowebin — This is a a website for digital solutions company

- Technologies: React, Bootstrap, HTML5 ,CSS3,
- Links: <http://www.prowebin.com>

## EXPERIENCE

BPOSeats - Full stack Developer  
July 2023- Present

Achievements and key responsibilities:

- Developed and deployed a scalable web application: Led the development and deployment of a web application leveraging Python, Django, and PostgreSQL, which effectively optimized resource usage to meet customer needs.
- Implemented comprehensive API documentation: Spearheaded the creation of comprehensive API documentation for an existing project, ensuring clarity and accessibility for both internal and external stakeholders.
- Mentored junior engineers: Acted as a mentor to junior engineers, providing technical guidance and support to facilitate their professional growth and development

Freelance - Web and mobile apps developer  
July 2022- July 2023

Achievements and key responsibilities:

- Developed and deployed custom web applications for various clients, utilizing technologies such as python, flask.
- Collaborated with clients to understand their requirements and translate them into functional software solutions.
- Implemented robust security measures to protect client data and ensure compliance with industry standards.
- Optimized performance and scalability of applications to handle increased user traffic and data loads.
- Provided ongoing support and maintenance for existing projects, including troubleshooting and bug fixes.
- Impact on clients/business:
- Increased client satisfaction by delivering high-quality, tailored solutions that met their specific needs.
- Helped clients streamline their processes and improve efficiency through automation and optimization.

- Contributed to revenue growth for clients by developing scalable and monetizable applications.

CIM Innovations - Senior software engineer  
March 2021 - October 2022

Designed and implemented major software enhancements to CIM Innovations web platforms..

- Improved quality and reduced development costs by developing domain specific language for scripting business logic in portfolio accounting and trading systems.
- Invented novel, high-efficiency solution for concurrency control improving throughput and reliability of system.
- Developed database and coded user input frontend for over 300 client's account information
- Ensured predictable latency, reliability and failure recovery in multi-terabyte real-time databases by reorganizing processes, file systems, and data structures.
- Developed high scalable payment platforms that increased company revenue by 13%.
- Automated processes to resolve business challenges, such as ever-fluctuating currency exchange and bank interest rates (15+ countries), complex bank reconciliation interfaces and ACH/wire-fraud detection.

Rupert Cloud - Software developer  
January 2021 - March 2021

- Design, develop, test and deploy highly scalable ecommerce applications.
- Test websites and perform user testing and troubleshooting before live deployment.
- Determine coding requirements for site creation including ecommerce capability and security and specialized scripts.
- Analyze requirements, design, develop software applications for websites.

Hackers Yacht - Software developer  
March 2020 - September 2020

- Coordinate the design and implementation of various applications, including collaboration with project managers, and client representative and development teams.
- Provide mentoring services to junior developers as needed.
- Experimented with multiple iterations during design implementation.
- Wrote extensible and maintainable code as part of a team.

- Excelled in rapidly prototyping new capabilities to confirm project feasibility.
- Designed web applications and maintained content for multiple web-based systems.
- Consulted with clients regularly regarding projects, proposals, and technical issues that arise during the development process.
- Managed traffic and designed and created MySQL databases for hundreds of concurrent users
- Designed and programmed software for Macintosh, Windows and Linux
- Beta-tested pre-release application software
- Provided 1-on-1 technical support via email and phone, and in person
- Performed on-site software maintenance for end users

Amara Hub, Bidi bidi — Volunteer - Refugee Program Developer Mentor

MARCH 2020 - AUGUST 2020

- Train refugees through providing technical support in software development
- Do code reviews regularly to help refugee learners with what they are confused about right/wrong.
- Lead groups of learners in performing programming tasks
- Technologies used: JavaScript, CSS3, HTML5 , Python

Equity Bank Uganda Limited, Kampala — *Banking Officer*

JUNE 2019 - MARCH 2020

- Serve as one point telephonic contact to customers on banking solutions
- Advise bank customers on financial investments
- Handling customer financial transactions like deposits, withdrawals, transfer money orders, and checking
- Learn about banking products to respond to related customer queries
- Maintains supply of cash and currency and turns in excess cash and mutilated currency to the head teller.
- Complying with bank operations and security procedures by participating in all dual-control functions, maintaining customer traffic surveys, auditing other tellers' currency, and assisting in certification of proof.

Prowebin, Kampala —junior software developer

MARCH 2019 - JUNE 2019

- Contributed software engineering expertise in the development of products through the software lifecycle, from requirements definition through successful deployment.

- Facilitated customization of systems by encouraging the software engineering team to adopt emerging standards for software application development architecture and tools.
- Developed the main website portal of the company which

Hackers Yacht, Kampala — Software developer intern

JUNE 2018 - SEPTEMBER 2018

- Assisted in the design and development of user information solutions and Internet applications for a leading startup company.
- Design and develop frontend interfaces on guidance of tutors

## EDUCATION

Kampala International University, Kampala — BSc. Computer Science

AUGUST 2014 - NOVEMBER 2018

- Graduated with second upper degree honors. Spearheaded the development of noticeboard mobile application in a team of three as our final year project that is used to electronically avail information in various faculties at universities. Technologies used are JavaScript, react native, firebase.

## PERSONAL QUALITIES

- Outstanding communication, interpersonal, and customer service skills.
- Ability to work individually and as a team player.
- Transparent, honest and respectful.
- Flexible and can adapt to new situations.
- Ability to work under pressure and meet tight deadlines.
- Strong attention to detail and organizational skills.
- Problem solving skills and passion about learning.

## HOBBIES

- When I am not sitting in front of a computer monitor, I like to disconnect and unwind in the great outdoors. My favorite activities include watching movies and playing football. I volunteer my time once a week to teach middle school students how to code, and often volunteer with Andela learning community every year when I get the opportunity