

Hamza Kyamanywa, Full Stack Software Engineer

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Date of birth	1998/10/30	Place of birth	Kampala, Uganda
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LINKS [LinkedIn](#), [GitHub](#), [Stackoverflow](#)

PROFILE Innovative Software engineer with **strong academic background** and notable working experience in a **startup environment**. **Creative thinker** with extensive experience in an assortment of both front-end and back-end web technologies including **Python, Django, ReactJS, NextJS, SQL, and JavaScript/Typescript**. **Adept** in design, prototyping, and testing. In previous roles, Orchestrated **optimization** strategies that boosted product performance by up to **57%**. Built new core features, and enhanced existing ones to drive up **user satisfaction, user retention, and company revenue** by over **20%**. Demonstrated exceptional problem-solving skills by resolving numerous critical issues in our products. **Efficiently** self-managed and **collaborated** as part of a hybrid remote and in-person team. **Competent** communicator. **Superior knowledge** of data structures and algorithms.

EMPLOYMENT HISTORY

Jun 2022 — Present **Fullstack Software Engineer (R&D), Slid (<https://www.slid.cc>)** Seoul

Technologies Used: Open AI, Langchain, Python, Django, JavaScript/Typescript, React, Next Js, MySQL, Redis, Pinecone, Webpack, Git, Vercel, Docker, Amazon AWS, Chrome Extension, Amplitude

Activities

- Designed and developed RESTful APIs using Node Js, Express JS, Python and Django frameworks.
- Worked with ML models wrapped in RESTful APIs from Google Cloud Services and Open AI.
- Single Page App and Chrome Extension development with React, NextJS, HTML, and CSS.
- Desktop App development using React JS, Electron JS, and NodeJS.
- Prototyped and demonstrated new features to stakeholders and participated in sprint planning.
- Contributed to popular open-source projects like Editor JS and Langchain
- Demonstrated expertise with various insightful solutions on Stack Overflow (Top tag: google-speech-API).
- Deployed projects using Vercel, Next Edge, and AWS with DevOps teams.

Projects & Results

- **Led** the research **and** development of a real-time video transcription features using ReactJS, NodeJS, and Google Cloud STT API. Became a core offering and led to a **51% increase** in premium subscriptions and **20% increase in customer acquisition**.
- **Led** the design and development of a **reliable** authentication system using AWS Cognito across all platforms (React Web App, Chrome extension, and mobile and desktop Apps). Resulted in a significant improvement in user trust and a **98% marked decrease** in authentication issues.
- **Implemented** a highly requested universal export feature for Slid's note-taking product with **96% accuracy** in format conversion. Improved user experience and resulted in a **75% decrease** in support requests related to copy-and-paste functionality
- **Optimized the performance** of the user-facing website to achieve **57% faster loading time** using lazy loading and browser-optimized content types.
- **Built high-performance** user-behavior monitoring react-hooks that facilitated the collection of user data and **significantly sped up** hypothesis evaluation and generation by **35%**
- **Actively contributed to** open-source projects such as **EditorJS, Langchain, and Pytube** earning a considerable GitHub following,
- **Built** a cloud-based LLM video summarization engine, garnering **1,500 MAU** with a **25% weekly retention rate** and daily summarization rate of **1,000+ videos**

Notable Achievements

- Received the **"Slid Hero of 2022"** award for ambitious and outstanding contributions to the team
- Helped Slid team earn a nomination for **2022 East Asia EdTech 150**.
- Instrumental in growing Slid's global customer base to over **60,000 users**.
- Led team focusing on Slid's **global users**.
- Promoted twice in 2023.

EDUCATION

Mar 2019 — Feb 2023

BSc. in Electrical Engineering, Korea University

Seoul

- **GPA: 4.02/4.5** (*Magna Cum Laude*)

Related courses completed:

- Data Structures and Algorithms with C++ (*KECE20803*)
- Internet Programming (*KECE44600*)
- Databases (*KECE44500*)
- C / C++ programming (*EGRN15109*)
- Multimedia signal processing with machine learning (*KECE41800*)
- Engineering Mathematics I & II (*KECE23102, KECE23204*)
- Fundamentals of Data Science (*EGRN24100*)
- Computation Thinking (*GECT00100*),
- Multimedia Signal Processing (*KECE41800*)
- Signals and Systems (*KECE31301*)

Relevant coursework:

- Graduation Thesis Titled "Distilled Model Soups: Improving Robustness and Accuracy of Small Models through Knowledge Distillation and Model Soups" (*Preprint 2022, Hamza Kyamanywa, Seung-Won Jung*)
- Implementation of shortest route finding app using Dijkstra's algorithm
- Improving the performance of DnCNN neural network

Feb 2018 — Feb 2019

Korean Language Course, Sunmoon University Korean Language Institute

Cheonan

Achieved an advanced Korean Profeciency test score of TOPIK 5 within 8 months of learning the Korean language for the first time.

SKILLS

Python	Pytorch
TypeScript	Express.js
NodeJS	MongoDB
NextJS	Django
AWS	C++
Google Cloud	SQL
Langchain	Linux
React	Git
Redux	HTML & CSS
Docker	

AWARDS AND HONORS

Mar 2018 — Present

Korea Global Scholarships

Seoul

The Korean Government Scholarship Program provides "exceptional" "non-Koreans" and "overseas Koreans (who fulfill certain criteria)" with the funding and an opportunity to conduct either undergraduate or postgraduate level studies in universities in Republic of South Korea (South Korea)

Aug 2017 — Feb 2018

Ugandan Government Scholarship

Kampala

The Ugandan Government Scholarship is a prestigious fully funded university scholarship awarded to top performing high school students in Uganda on national merit.

2019

Korea University Academic Excellence Award

Seoul

The Korea University Academic Excellence Award is presented to Korea University students who achieve an outstanding 4.5/4.5 GPA during any given semester in which the student registers for and completes at least 17 credits.

PERSONAL PROJECTS

Feb 2022 — Dec 2022

ElkPro Cut

Seoul

Technologies used: React, JavaScript, HTML/CSS, Firebase, Matomo Analytics

- Created web booking system for foreign Hair shop which increased sales by 35%
- Developed admin panel for the site which improved internal working efficiency
- Tracked user behavior and patterns to identify customer preferences and required improvements
- Conducted extensive unit testing using Jest to ensure system reliability and accuracy

LANGUAGES

English

Native speaker

Luganda

Native speaker

Korean

Highly proficient

HOBBIES

Guitar, Soccer, Music, Sound engineering