

# Simon Junior Boateng

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## EDUCATION

Ashesi University | Greater Accra, Ghana

BSc. Computer Science,

Berekuso, Eastern Region

August 2024

CGPA : 3.70 / 4.00

## ACHIEVEMENTS AND AWARDS

- Magna Cum Laude Honors August 2024
- Dean's List (Students with GPA of 3.5 and above recipient) October 2021 - August 2024
- Futurize Africa Innovation Challenge (Honorary mention) April 2023
- Edu-Hack Hackathon (Winner) April 2022

## WORK EXPERIENCE

Really Great Tech – Accra, Ghana (Hybrid) | Full Stack Developer

October 2024 – Present

- Spearheaded architecture design and stack selection for Tickr (adopted by 50+ employees) and RGT Portal, reducing development time by 30% through modular design and reusable components.
- Led cross-functional teams (6 engineers) in Agile environments, delivering Tickr MVP in 2 months with 98% uptime post-launch and role-based dashboards (Admin/Manager/Employee).
- Architected multi-factor authentication (Google OAuth + OTP) using Passport.js, eliminating credential-sharing incidents and improving security compliance.
- Built RESTful APIs with Node.js/Express.js (TypeScript) for Tickr, handling 50+ endpoints for timesheet approvals, reporting, and real-time updates.
- Optimized performance by 40% via Docker containerization and Redis caching, enabling 25% more concurrent users on the platform.
- Designed PostgreSQL schemas with TypeORM for 10+ core entities (Users, Projects, Timesheets), streamlining complex queries by 35%.
- Developed dynamic frontends with React.js (shadcn/ui) and Tailwind CSS, improving UX satisfaction by 20% through reusable components that reduced frontend bugs by 40%.
- Configured AWS EC2 deployments with Docker Compose, slashing deployment cycles from 10 minutes to 2 minutes via CI/CD pipelines.
- Authored 50-page technical specification for Tickr (featured in company docs), standardizing development practices across engineering teams.

Reign Of Titans - MyDevConnect, UK | FullStack Engineer Contract

April 2024 - January 2025

- Designed and implemented the ROT payment system, enabling secure and efficient processing of tournament prizes, rewards, refunds, and payouts.
- Delivered a sleek, responsive front-end that increased engagement by 25%, and integrated Redux, Primus, and Redis Pub/Sub for real-time state management and data sync.
- Integrated the ROT Game System into the tournament platform, enabling real-time player data synchronization, automated tournament progression, and match results through a robust gaming module.
- Developed features for bracket advancement and elimination, ensuring accurate and dynamic tournament structures based on real-time match results.
- Collaborated with cross-functional teams in an Agile environment, enhancing code quality through peer reviews, achieving 95% unit and integration test coverage, and ensuring timely delivery of key features.

Enlight Education - Dartmouth College, USA | Software Development Contract

October 2023 - April 2024

- Led the development of the Enlight platform with a team of four, resulting in a 30% reduction in page load times and a 20% increase in user satisfaction.
- Elevated frontend architecture with React.js, implementing responsive UI components for a 15% boost in user engagement metrics.
- Implemented Docker for containerization, orchestrating cloud deployments to cut deployment time by 40% and enhance platform scalability.
- Engineered backend solutions with Node.js (Express.js), delivering RESTful APIs that facilitated a 25% increase in concurrent user capacity.
- Configured and optimized load balancers, leading to a 20% improvement in system performance and ensuring uninterrupted service during peak usage.

## **Turbines Limited - Accra, Ghana | Software Development Intern**

**May 2023 – August 2023**

- Conducted rigorous system testing (integration and end-to-end) to maintain a 98% defect-free rate.
- Optimized system performance through backend development, achieving a 30% reduction in response time.
- Collaborated effectively in cross-functional teams, utilizing agile methodologies for project management.
- Expanded proficiency in automated testing tools, such as Cypress, JUnit and Selenium

## **CYST Company Limited - Accra, Ghana | AI in Software Engineering Intern**

**May 2022 – August 2022**

- Collaborated on creating and integrating AI models into a mobile App for sentiment analysis for customer reviews.
- Identified and explored efficient AI models for performing language translations on the Mazzuma mobile app.
- Worked in a team of six to mark out a better way to integrate the natural language processing tools in the software.

## **PROJECTS**

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### **Wanderer – AI-Powered Career Readiness & Interview Evaluation Platform**

**Sep 2023 – August 2024**

- Co-developed a full-stack AI-powered web platform that simulates personalized technical mock interviews, providing real-time AI hints, feedback, and performance analytics.
- Implemented AI-integrated modules using Retrieval-Augmented Generation (RAG) with Mixtral-8-7B and vector databases for dynamic response generation.
- Engineered facial and speech emotion recognition models using TensorFlow and Keras, enabling behavioral analysis and feedback on communication skills.
- Developed a scalable microservice architecture using Node.js (TypeScript), Python, Redis, Prisma, PostgreSQL, and Firebase for both relational and non-relational data management.
- Designed interactive dashboards, coding playgrounds, and analytical reports using React, TailwindCSS, Zustand, and React Query to enhance user engagement and UX.

### **StudySmarter Web Application**

**April 2023**

- Collaborated in a team of three to build a full stack web application that uses react for the frontend and Express server.
- Utilized third APIs like google OAuth for authenticating users to use the application.
- Contributed to 40% development of the logical and conceptual database design and creation for data flow of the application.
- Coordinated 50% of the activities that took place in the team during the development process.

### **Hackers League Application**

**November 2023**

- Utilized Google Firebase resource to store user data, challenges and other important data for the application
- Contributed to building 70% of the application's frontend in a team of three
- Encapsulated the application in a docker container which provided the application with greater accessibility and comprehensiveness on different platforms

## **EXTRACURRICULAR ACTIVITIES**

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### **Google Developer Student Club, Facilitator**

**Jan 2022 - August 2024**

- Volunteer to facilitate machine learning and software development tutorials during our weekly workshops
- Collaborate on building internal and external projects for the club

### **Ashesi Design Lab and Entrepreneurship, Machine Learning Project Lead**

**April 2023 - August 2023**

- Lead a team of students to conduct research in machine learning for different innovative entrepreneurship projects
- Contributes to building business models and MVPs for students' projects

## **SKILLS**

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**Programming Languages:** Java, Python, PHP, C++, C, JavaScript (Typescript), SQL, R

**Frameworks and Libraries:** React Js, Vue Js, Node JS, Express Js, Flask Flutter (web/mobile), Primus, Redis, Pytorch, Tensorflow

**Others:** Git, Azure, Google Cloud, AWS (Lambda, ECR, EC2, Amplify, Containerization), HTML5, CSS3, MongoDB, Firebase, PostgreSQL, Microsoft Word, Excel, Figma Design, IOT, Networks

**GitHub:** <https://github.com/Simon-157>