Serena Noboudem

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EDUCATION

Kennesaw State University, GPA: 3.91,   May 2025 | Kennesaw, GA
Bachelor of Science in Computer Science

Coursework, Software Engineering, Data Structures, Algorithms, Database Systems, Artificial Intelligence, Parallel & Distributed Systems, Software Architecture

SKILLS

Java, Python, React.js, MySQL, Spring Boot, Git/GitHub, HTML/CSS, JavaScript, Postman, PostgreSQL, JWT, AWS, Kotlin, Firebase

WORK EXPERIENCE

Software Engineer, Intern, *Afriland First Bank*   Jun 2023 – Aug 2023
- Engineered a secure authentication system using OAuth2, JWT, and 2FA for a banking app, ensuring **100%** compliance with banking regulations and reducing unauthorized access attempts by **40%.**
- Collaborated with cross-functional teams to deploy AWS **EC2** and **S3** solution, integrating CI/CD pipelines with Jenkins, resulting in a **30%** increase in delivery speed.
- Supported the deployment and scaling of a containerized banking app using Kubernetes, ensuring **99.9%** uptime and reliable access for **10,000+** concurrent users.

Software Engineer, Intern, *PKF Research Center*   Jun 2022 – Oct 2022
- Built and maintained a **RESTFUL API** for a learning management system using **Spring Boot**, handling **100+ requests/seconds** and improving data retrieval speeds by **25%.**
- Designed and enhanced a web-based analytical dashboard using HTML, CSS, and JavaScript, implementing interactive data visualization features that enabled data-driven decision-making and increased user satisfaction by **30%.**
- Drove engineering best practices through active code reviews and contributions to coding standards, resulting in a **25%** reduction in bug reports and improved code maintainability.

PROJECTS

Mobile D2L (Kotlin, Firebase)
- Built a modular Android app simulating the D2L course system using **Kotlin,** with **13+** dynamic content types, streamlining **100+** student access to learning materials, and improving navigation efficiency by **40%**
- Integrated **Firebase Authentication** and **Realtime Database** to handle secure logins and real-time content sync for up to **100+ users**, reducing backend development time by **60%.**
- Improved app performance by reducing **load time** by **~35%** and eliminated manual data refresh through offloading content delivery to **cloud-hosted** Firebase infrastructure.

FinHub (Spring boot | React.js | MySQL)
- Developed a finance tracker web app using **Spring Boot** and **React.js** to retrieve and analyze financial data from **5+** bank accounts, enabling centralized **data aggregation** and delivering real-time insights to over **100 users**.
- Automated personalized spending insights and budget reports, helping users identify trends and reduce unnecessary expenses by up to **15%**, improving financial decision-making
- Integrated the Plaid API via **WebClient**, enhancing HTTP request handling efficiency by **10%** and ensuring secure, scalable access to user financial data with reduced latency.

DNS Server (Python)
- Engineered a multithreaded DNS server in **Python,** handling **500+** queries per second, achieving **99%** resolution accuracy by implementing efficient request parsing and high-throughput response construction aligned with RFC 1035.
- Optimized packet processing and memory management by structuring DNS responses efficiently, reducing average response time by **40%** and significantly improving query throughput.
- Implemented multi-stage DNS request validation and parsing logic using **Python**, reducing malformed query attacks by **90%** while conforming **100%** to RFC 1035 standards.

COMMUNITY MEMBERSHIP

ColorStack | Member, Peer mentor   Feb 2024 – present
- Actively contribute to KSU's ColorStack chapter by enhancing the database platform using Postgres and reviewing pull requests
- Mentored **5+** peers in technical skills and career development fostering an **inclusive** and **collaborative community.**