Bernard Allotey

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Software Engineer

Creative and technically minded professional with hands-on experience in developing and implementing scalable software programs / applications. Enthusiastic full-stack software engineer with passion for creating and delivering cutting-edge software solutions through ideation, development, and successful production with keen focus on improving user experience. Astute at collaborating with engineer teams for building high performance front-end and back-end applications. Solution-focused individual with sound knowledge of C# and .NET; innate ability to resolve queries of customers and provide excellent technical support. Capable of testing and evaluating new programs, while identifying areas of modification / improvement in existing programs.

Areas of Expertise

- Full Stack Software Development
- Cloud Computing & Development
- Software Testing & Debugging
- System Troubleshooting
- System Maintenance & Updates
- Performance Improvement
- Process Improvement
- Customer Satisfaction
- Cross-team Collaboration

Technical Proficiencies

C#, Python, C, C++, Microsoft Office Suite (Word, PowerPoint, Excel, Outlook), Java, TypeScript, JavaScript, Android, .NET Core, REST, React, Go, Docker, AWS, and Google Cloud (GCP)

Career Experience

Siemens PLM, Huntsville, AL — 2022 – 2023
Dev-Ops Engineer

Leveraged React and Redux to improve frontend of build system, such as introducing visual refinements and seamlessly integrating with newly implemented logging system using TypeScript. Streamlined workflow by collaborating closely with cross-functional teams including developers, system administrators, and quality assurance.

- Enhanced Java backend by replacing outdated logging mechanisms in internal build system with modern solution; accommodated real-time updates and significantly boosted read efficiency by 100x.
- Reprogrammed logging system for build service; doubled throughput for log ingestion and tripling read speed.
- Employed Go programming language to develop Kubernetes sidecar containers / harness power of new logging system.

Amazon.com Inc: Lab 126, Sunnyvale, CA — 2022
Software Development Engineer Intern

Supported Astro Floor Plan Service in Java on AWS. Contributed to design and architecture of software systems while ensuring scalability, performance, and reliability. Analyzed and resolved complex software issues, identified root causes, and implemented effective solutions.

- Optimized workflow efficiency by redesigning cloud data layer workflows from ground up.
- Increased frequency of customer feedback with device used by thousands of customers from 24 hours to 1 hour.

ParkSight, Huntsville, AL — 2021 – 2022
Owner and Lead Developer

Designed and implemented full-stack solution by combining React Native mobile frontend with a C#/.NET Core 6 Cloud Run microservice backend. Collaborated with clients and stakeholders to determine business requirements and translate into technical solutions. Implemented rigorous testing processes to ensure software quality and reliability.

- Identified busiest parking zones on large-scale campus by designing comprehensive application for campus community through utilization of crowd-sourced data.
- Ensured efficient data retrieval and processing by employing REST APIs and gRPC communication protocols and establishing seamless interaction between frontend and backend components.

Abaco Systems Huntsville, AL   2021 – 2022
Software Test Engineer Co-Op

Coordinated with development team to understand software requirements and design test cases. Executed manual and automated test cases to validate software functionality and performance. Identified and documented software defects, ensuring accurate and detailed bug reports.

- Contributed to software development process for testing Single Board Computers (SBCs) prior to production.
- Enabled effective tracking of hardware health over time by creating specialized tool using MongoDB and C# and evaluating long-term hardware performance of products during testing phases.

Amazon.com Inc: Lab 126, Sunnyvale, CA   2021
Software Development Engineer Intern

Collaborated with product managers, designers, and other engineers to deliver high-quality software products. Streamlined workflow by managing diverse range of tasks.

- Utilized Amazon Astro to develop data layer for capturing customer feedback about Hangout positions on Floor Plan Service.

University of Alabama, Huntsville, AL   2020 – 2022
Software Developer

Integrated powerful capabilities of the DocuSign API, allowing for efficient and secure electronic document signing and authentication within the travel approval process. Managed project timelines, resources, and deliverables to ensure successful project execution. Cultivated professional relations with team members.

- Utilized Google Apps Script in conjunction with TypeScript and JavaScript to develop and maintain robust software solution for managing travel authentication workflow within department encompassing over 900 students.
- Created tool to process department travel requests for university; responded to over 500 requests per semester.

Education

Bachelor of Science in Computer Science Graduation, May 2023

University of Alabama in Huntsville

● Major GPA: 3.5/4.0

Honors & Awards

Hudson Alpha Tech Challenge | 2nd Place | March 2020

UAH ACM Hackathon | 1st Place | April 2020