

ALEXAN CHAPRAZIAN

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EDUCATION

University of Massachusetts - Lowell

Aug. 2019 – May 2023

Bachelor of Science in Computer Science - GPA: 3.66

Lowell, MA

- Coursework: Mobile App Programming, Cloud Computing, Compiler Construction, Analysis of Algorithms, Artificial Intelligence, Machine Learning, Operating Systems, Data Structures, Object Oriented Programming

TECHNICAL SKILLS

Languages: C++, Python, C, Kotlin, SQL (Postgres), Scala, Java

Frameworks/Libraries: NewsAPI, Maps SDK, OpenCV, NumPy, Matplotlib

Developer Tools: Git, AWS, VS Code, Android Studio, Visual Studio, Apache JMeter, IntelliJ, Redis, Postman

EXPERIENCE

Programmer Analyst

Jun. 2023 – Dec. 2023

Mersen

Newburyport, MA

- Launched the development and successful implementation of a document cleaning program using regex, resulting in a 50% increase in processing efficiency and a 75% reduction in manual errors.
- Engineered a robust automated system, utilizing SQL queries, to cross-reference CSV reports with UPS records; successfully identified missing orders, verified shipment status, and initiated re-sends, resulting in a 40% reduction in order discrepancies and improved customer satisfaction.
- Orchestrated projects with precision, delivering insightful reports to management for informed decision-making
- Conducted in-depth post-implementation analysis and executed targeted follow-up actions, driving continuous improvement and optimizing project outcomes.

Software Engineer Intern

Jun. 2022 – Aug. 2022

Ad Hoc Labs

Los Angeles, CA

- Spearheaded the successful implementation of load testing into the microservice architecture, ensuring the app's stability under high usage and improved confidence in releases by 100%.
- Developed and maintained RESTful APIs, optimizing integration with client applications and facilitating seamless data exchange in a CI/CD pipeline; achieved 40% reduction in build, test, and deployment time.
- Elevated service performance by resolving intricate bugs, leading to efficiency and refined user experience.
- Collaborated with senior engineers, providing a fresh perspective on software engineering, which led to enhanced decision-making and overall project outcomes.

PROJECTS

Life Source | Java, Git, NewsAPI, Maps SDK, Android Studio

- Led the production of LifeSource, a blood donation app, aimed to address the national blood shortage by encouraging donation through monetary incentives to increase the blood donation average by 50%.
- Designed and executed a comprehensive product development roadmap, including idea pitching, prototype creation, pre-release preparations, user testing, and successful product launch.
- Incorporated Maps SDK to seamlessly integrate user location and display information on 25 closest donation centers, optimizing accessibility to crucial resources for individuals in need.
- Leveraged News API to integrate real-time educational articles, driving user engagement in blood donation initiatives by 50% and ensuring access to up-to-date information.

B-Minor Compiler | C, WSL, Flex, Bison, Git

- Developed a scanner using Flex that resulted in a 30% reduction in parsing time by performing lexical analysis and tokenizing code into meaningful units.
- Integrated and deployed regular expressions to identify and tokenize language constructs, increasing accuracy and enhancing the efficiency of language processing algorithms.
- Achieved correct parsing of complex language constructs in over 95% of test cases, attesting to the precision of grammar rule management.