

ALEX CHAPRAZIAN

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EXPERIENCE

Software Engineer

Apr. 2024 – Present

Solid State Scientific Corporation

- Collaborate with developers to manage and deploy Kubernetes pods, ensuring smooth updates and continuous integration through Jenkins CI/CD pipelines.
- Designed and implemented cloud-based solutions using Terraform to provision AWS services, facilitating seamless developer access to required tools.
- Led the refactoring of over 900 applications to improve code quality by adhering to clean code principles, which reduced code complexity and improved readability by 40%.
- Enhanced product safety by implementing comprehensive unit tests across refactored applications, identifying and mitigating vulnerabilities, and increasing test coverage by 80%.

Software Engineer Analyst

Jun. 2023 – Dec. 2023

Mersen

- 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.

TECHNICAL SKILLS

Languages: C++, Python, C, C#, Kotlin, JavaScript, PostgreSQL, Scala, Java

Frameworks/Libraries: Jetpack Compose, NewsAPI, Maps SDK, OpenCV, NumPy, Matplotlib, Selenium, Flask

Developer Tools: AWS, Terraform, Unity, Git, Jenkins, Docker, Kubernetes, Apache JMeter, IntelliJ, Redis, Postman, VirtualBox, Visual Studio, Anaconda, JFrog, SonarQube, PrismaCloud

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.
- Leveraged News API to integrate real-time educational articles, driving user engagement in blood donation initiatives by 25% 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 the accuracy and efficiency of language processing algorithms.
- Achieved precise parsing of language constructs in all test cases, ensuring effective grammar rule management.

EDUCATION

Georgia Institute of Technology — Master of Science in Computer Science

Expected 2026

University of Massachusetts Lowell — Bachelor of Science in Computer Science

CERTIFICATIONS

- **AWS Certified Solutions Architect - Associate** - Amazon Web Service
- **CompTIA Security+** - CompTIA