

Alexan Chaprazian

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EDUCATION

University of Massachusetts - Lowell

Aug. 2019 – May 2023

Bachelor of Science in Computer Science

Lowell, MA

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

EXPERIENCE

Computing Grader

Feb. 2021 – May 2023

UMass Lowell

Lowell, MA

- Selected by faculty to provide comprehensive feedback and grading for homework assignments, demonstrating expertise in the C programming and proper coding practices.
- Guided students in completing assignments, imparting advanced programming concepts and fostering critical thinking skills, resulting in a 30% increase in assignment grades and advanced overall class performance.
- Evaluated and graded over 200 homework assignments, delivering insightful feedback that contributed to improvement in student performance.
- Collaborated on developing a standardized grading rubric, reducing grading discrepancies by 20%, and documented three instances of academic misconduct, upholding academic integrity.

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 robust RESTful APIs, ensuring integration with client applications and enabling data exchange in a CI/CD pipeline to automate build, test, and deployment and deliver high-quality software.
- Elevated service performance by resolving intricate bugs, leading to efficiency gains and refined user experience.
- Collaborated effectively with senior engineers, providing a fresh perspective on software engineering which led to enhanced decision-making and overall project outcomes.

Tutor Center Supervisor

Sep. 2021 – Dec 2021

UMass Lowell

Lowell, MA

- Successfully managed the daily operations of the tutoring center, ensuring a smooth and productive learning environment for students seeking academic support.

PROJECTS

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

Jan. 2023 – Present

- Produced LifeSource, a blood donation app, aimed to address the national blood shortage by encouraging donation through monetary incentives.
- Followed development process of pitching the idea, creating a prototype, pre-release, user testing, and final release.
- Integrated Google Maps SDK to display user's location and donation centers with detailed information.
- Enabled users to access and search educational articles and stay updated with current news related to blood donation but utilizing News API to provide the relevant articles.

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

Jan. 2023 – Present

- Developed a scanner using Flex to perform lexical analysis, tokenizing code into meaningful units.
- Implemented regular expressions to recognize language constructs, ensuring accurate tokenization.
- Achieved correct parsing of complex language constructs in over 95% of test cases, attesting to the precision of grammar rule management.
- Created an Abstract Syntax Tree representation of the parsed code, enabling efficient manipulation and traversal.
- Managed grammar rules and precedence to ensure correct parsing of complex language structures.

TECHNICAL SKILLS

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

Frameworks: NewsAPI, Maps SDK

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

Libraries: OpenCV, NumPy, Matplotlib