Christian Aaron Gould

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EDUCATION: **Southern Methodist University**   Dallas, TX
Bobby B. Lyle School of Engineering   Grad Date: May 2023
Bachelor of Science in Computer Science

RELEVANT   Data Structures, Discrete Math, Fundamentals of Algorithms, Assembly Language, Database Systems,
COURSES: Calculus I & II, Linear Algebra, Intro to Engineering Design, GUI, NLP, Applied ML, Machine Organization

Programming Languages: C++, Java, Python, Shell Scripting (Bash Shell)
Web Technologies: HTML, CSS, JavaScript, React, Angular, TypeScript
Frameworks and Libraries: JUnit, Mockito, Spring Boot, Pandas, NumPy
Database Technologies: MySQL APIs and Tools: Git, Google Drive API, GitHub Actions
Other Skills: AWS, Linux, Vim, Vi, Test-Driven Development (TDD), SCRUM, Agile, Feature Testing

EXPERIENCE:

McKesson, *Autonomy and Mobility Software Engineering Intern,* Irving, TX   Summer 2021
- Participated in daily standups of a SCRUM AGILE environment in a team of 7 Software Engineers
- Added source code to the main codebase of ESIT Core, McKesson's multi-purpose data streamlining service
- Implemented a logging diagnostic utility using Context Dependency Injection
- Formed various JUnit tests to meet specific acceptance criteria

Capital One, *Software Engineering Intern,* Plano, TX   Summer 2022
- Participated in daily standups of a SCRUM AGILE environment in a team of 5 Interns
- Added source code to DocViewer, Capital One's management platform for auto loan funding
- Deployed a microservice utilizing an OCR API to enable word searching in scanned documents
- Wrote regex and logic to mask personal information from stored data and data traffic
- Completed end-to-end testing with feature testing deployed to Sandbox
- Edited production-level code in Angular to add new components necessary for the searching process
- Reviewed and processed over 60 pull requests for various features and changes

Capital One, *Associate Software Engineer*, Plano, TX   Summer 2023 – Current
- Collaborated with a team of 5 engineers to manage releases and environments effectively.
- Automated testing procedures to ensure smooth operation of environments.
- Implemented automated deployment of testing outcomes in UI environments, enhancing efficiency.
- Developed and managed multiple Jenkins scripts to streamline maintenance tasks for dev and QA environments.
- Actively engaged in daily stand-up meetings within a Scrum Agile framework, focusing on environment maintenance and upkeep.

ENGINEERING PROJECTS:

Search Engine
- Wrote a search engine to search for the most relevant terms within a corpus of scientific articles
- Implemented a custom, templated HashMap and AVL-Tree data structure for an inverted file index
- Used term frequency analysis to return more relevant results of a search to a user for 100,000 articles
- Integrated the use of binary operators such as OR, NOT, AND in the terminal UI for the user to search with

ENGR 1357 Vending Machine
- Implemented a control system for a maker lab hardware vending machine in a classroom setting
- Produced a platform that used a Raspberry Pi for UI and backend, while using Arduino for motor control
- Designed team accounting software for hardware distribution to over 120 students via Google Drive API

Senior Design Project, *Unbent Data Visualization*
- Engaged with external company Unbent to deliver a software solution
- Completed the project with a full lifecycle delivery using requirements engineering, design, and architecture
- Made extensive use of React for the frontend, AWS for deployment, and Node for backend
- Completed a data visualization full stack website that allows companies to view different information about subconscious bias that candidates may have before hiring