Scott Ti

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EXPERIENCE

- **Boeing**   10/13/2023 - Present
  Software Engineer

  - Engineered a highly configurable build/test execution pipeline with GitLab CI/CD, streamlining daily workflows now used by hundreds of internal engineers across several programs.
    Tech: *GitLab CI/CD, Python, C++, Docker, Bazel*

  - Redesigned a custom test framework with a modular and extensible architecture, streamlining integration with diverse software modules and enabling automated testing across a wide range of hardware targets.
    Tech: *Python, C++, Bazel, Docker*

  - Optimized test execution by designing and developing a load-balanced, distributed testing platform, enabling efficient parallel testing of multiple software modules across arbitrary test environments.
    Tech: *AWS EC2, Python, Bash, GitLab Runner*

  - Developed test cases and scripts compliant to DO-178C standards and conducted testing in QEMU virtual machines, closely replicating physical hardware environments for validation.
    Tech: *QEMU, Python, Bazel, C++, Markdown*

EDUCATION

- **Bellevue College**   Bellevue, Washington
  Bachelor of Science - Computer Science GPA: 3.6/4.0   *September 2018 - June 2022*
  Upper-Division Courses: *Deep Learning, Machine Learning, Algorithm Analysis, Software Engineering, Operating Systems, Cloud Computing*

SKILLS

- **Languages**:   Java, Python, C++, JavaScript/TypeScript, Rust, C, SQL
- **Tools**:   Git, Bazel, Docker, MongoDB, MySQL, PostgreSQL, JUnit
- **Platforms**:   GitLab, AWS, Firebase, Google Cloud

TECHNICAL PROJECTS

- **Deal! Price Comparison Web Application (Plug-in Architecture, Web Scraping, User Authentication, Full Stack Web Development, Scrum Workflow)**:
  Tech: Java, HTML/CSS, Javascript, Spring Boot, Thymeleaf, Bootstrap, AWS, DynamoDB, Cognito, IAM.
  https://github.com/scottti312/deal-webapp

  - Led a 4 person team to create a full-stack price comparison web application using Java, AWS, and web scraping techniques alongside agile methodology. Created clear deadlines and goals for each sprint.
  - Worked extensively with AWS API to handle database operations, user authentication, and scalability, resulting in a reliable and efficient platform.
  - Built and improved internal vendor plug-ins to provide product data from retailers 75% faster with parallel processing.

- **License Plate Recognition Ticket Processing System (Image Processing, Computer Vision, Database, Windows Service)**:
  Tech: C#, AWS, S3, Rekognition, Lambda, IAM, SQS, SNS, CloudWatch.

  - Developed a license plate recognition ticket processing system that automates ticketing for traffic violations using captured images of license plates.
  - Tested against 10 license plates from different states with unique edge cases such as icons and plate designs, achieving 100% accuracy and ensuring reliable performance for the client.
  - Notifies users by email or text with relevant ticket information using SNS service, reducing manual labor and streamlining ticket processing.