

STEPHEN LANDAAS

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EDUCATION

California State University, Fullerton

Fullerton, CA

Bachelor of Science in Computer Science, GPA: 4.0

SKILLS

Languages: C++, C, Java, Python, Bash, HTML5, CSS3, JavaScript, React, SQL, AIDL

Developer Tools: Linux (Ubuntu), Docker, Git, GitHub, Gerrit, MySQL Workbench, Android Studio, Jupyter Notebook, IntelliJ IDEA, Jira, Trello, Confluence

EXPERIENCE

Garmin – Software Engineer I

May 2022 – Present

Garmin Connect Services: SevBot

- Developed and maintained a web application in React and Java Spring Boot for comprehensive tracking of Garmin Connect outages and other issues.
- Created RESTful APIs and backend logic in Java Spring Boot to communicate with a React frontend built using the Next.js framework.
- Regularly updated the MySQL database to include new aspects of outage reports (SEVs) and managed the integration of new data into the system.

Factory Log Analysis

- Managed a MySQL database to capture and maintain logs from Garmin's factories, using SQL queries for table creation and updates related to factory output.
- Performed data analysis using Python and Jupyter Notebook to analyze statistics on various units produced, aiming to detect anomalies such as extended test cycle times and high failure rates.

Data Simulation Software for Machine Learning Models

- Developed data simulation software using Python, Google Places API, and OpenRouteService to provide training data for various machine learning models used in predicting drivers' destinations.
- Implemented generation of artificial schedules in a Docker environment using real-life points of interest and GPX data to enrich training data.

Rear Seat Entertainment (RSE) Testing Software for BMW's 2023 i7 Vehicles

- Applied Agile methodology to optimize Android applications using Java and AIDL.
- Created a Python and Bash testing suite for unit tests on RSE components, covering touchscreen capabilities, board-to-board communication via RESTful APIs, and factory reset functionality.
- Collaborated on a graphical user interface for running specific tests and automating regression testing, enhancing efficiency in software testing processes.

VOLUNTEERING

ACM Orange County Chapter – Web Master

Jan. 2023 – Present

- Maintaining the *Association for Computing Machinery* Website using HTML, CSS, and JavaScript.
- Attending monthly board meetings to plan for bi-monthly ACM general meetings in Orange County.

STEM Advantage – Mentor

May 2023 – Present

- Mentoring 10 college students in STEM to help advance their academic and professional careers.
- Planning and actively participating in scholarship events for the program.