Andrew Kleinman

Computer Scientist

Contact

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Technical Profile

Java
SQL
Python
JavaScript
HTML
Scala
C++

Competencies

AWS
Embedded Software
UAV
Component integration
Spring
JSX
Jira
Docker
LiDAR

Education

December 2021

California Polytechnic University, Pomona
- M.S. Computer Science
- GPA: 3.97

June 2020

San Jose State University
- B.S. Computer Science
- Minor Mathematics
- Minor Physics

Work History

January 2024 – Present

Software Engineer, Raytheon

- Designed and Implemented a full-stack airline website with features for booking and managing a user's flights using Java, Spring boot, HTML, and PostgreSQL.
- Collaborated with a team to develop an e-commerce application which includes advanced filtering, account management, and secure data manipulation

April 2022 – November 2023

Cloud Support Engineer, Amazon Web Services

- Identified, analyzed and resolved infrastructure vulnerabilities and application deployment issues for over 300 businesses
- Modified and debugged implementations of AWS services in the areas of Serverless Development, Messaging, and Mobile Technologies
- Handled high urgency assignments with an SLA of 15 minutes

May 2021 – December 2021

Full Stack Developer, Esdiac Global Systems

- Integrated Java, Scala, HTML, and Javascript code to create a real-time system to monitor active voice and video calls
- Managed and stored user data using a MySQL database, to control information displayed upon user login

Projects

August 2020 - December 2021

Embedded Software Engineer, UAV Fire Detection and Suppression
Collaboration with Lockheed Martin Corporation

- Led a team to produce a pair of drones that operate in tandem to navigate, detect and suppress fires, and map environment data
- Designed a variety of pathing and obstacle avoidance algorithms to allow automatic traversal through difficult terrain based on input from a VLP-16 LiDAR

Publications

1. Kleinman, A. (2022, January 28). Algorithms for automatic UAV pathing, detection, and traversal in an unknown environment. ScholarWorks. http://hdl.handle.net/20.500.12680/4q77fx85d

2. Moffatt, A., Turcios, N., Edwards, C., Karnik, A., Kim, D., Kleinman, A., Nguyen, V., Ramos, V., Ranario, E., Sato, T., Uryeu, D., and Bhandari, S., "Collaboration between Multiple UAVs for Fire Detection and Suppression," *Proceedings of International Conference on Unmanned Aircraft Systems*, Hybrid Event, Athens, Greece, 15-18 June 2021.