Mitchell Lane

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Education

Bachelor of Science in Software Engineering
California Polytechnic State University, San Luis Obispo   Jun 2016
Overall GPA: 3.634

Associate of Science in Math and Science
Cuyamaca Community College, San Diego   May 2013
Overall GPA: 3.866

Work History

OpenVSP Software Developer
Intern for NASA Contract   Jun 2015 - Present
- Extended the functionality of OpenVSP's CFD Mesh tool to include the use of "Negative Volumes"
- Developing analytical derivative capability in order to improve aerodynamic shape optimization
- Provided the ability to perform transformations on groups of geometry
- Refactored convoluted algorithms to enhance efficiency and readability

Data Warehouse Developer
Digital Democracy   Jun 2015 - Present
- Assisted team in developing a website to aid in the visualization of the system's database health
- Utilized Jira to assign and track user stories
- Gathered end user feedback to add and refine functionalities in the system in an Agile-like process

Skills

Proficient Programming Languages: C, C++, Java, SQL

Experience With: Python, Javascript

Project Highlights

- **Android Development -** Developed an Android application to assist a masters student in collecting data for a thesis
- **Software Requirements Engineering** - Worked in a team of six members with a representative of Cru Central Coast to develop a Software Requirements Specification
- **Software Construction** - Worked in two week sprints to complete the requirements specified in my Software Requirements Engineering class
- **Programming Languages** - Incrementally developed a dynamically typed functional programming language
- **Systems Programming** - Created an LZW file compressor in C
- **Real-Time Computer Graphics** - Designed and developed a game with OpenGL and C++ in a team of six members
- **Personal Responsibilities** - Analyzed the ethics of the distribution of DeCSS with respect to the IEEE Software Code of Ethics