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Alex Meier

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EDUCATION

Bachelor of Science in Computer Science, Anticipated graduation Fall 2020
University of Massachusetts Lowell, MA
Related Courses: Computing 1-4, Assembly, Logic Design, Computer Architecture, Software Engineering I – 2, Artificial Intelligence, Computer Graphics
Currently Enrolled: Software Engineering II, Artificial Intelligence, Computer Graphics

RELATED SKILLS

- Programming languages: C, C++, C#, Java, JavaScript, and Python
- Knowledge of object-oriented programming
- Experience in Linux use: Oracle Linux, and Ubuntu
- IDEs: NetBeans, Visual Studio, Xilinx SDK
- GIT and SVN

RELATED EXPERIENCE

Software Developer – Internship, Symbotic, Wilmington MA, Summers 2019 – 2020

- Created a framework for testable and maintainable in-house tools using Elastic Search
- Developed a data analysis web app using JavaScript React and ASP.NET for testing and debug usage
- Worked with Kibana and Kafka to add data ingestion capabilities to existing software

Surgical R&D Co-op, Hologic, Inc. Marlborough MA, July – December 2018

- Developed for embedded systems in C with Xilinx SDK
- Static Analysis of C with PC-lint
- Prototyped GUI front end software in java
- Worked with bash and windows scripting to automate software build processes
- Wrote test procedures and documentation for medical devices

Robotics Lab Co-op, NERVE Center @ UMass Lowell, Lowell MA, June – August 2017

- Integrated natural language processing into a ROS controlled ground robot using Amazon voice services
- Collaborated with others to develop algorithms for interpreting sensor data, specifically for indoor navigation and detecting open doors
- Built an Apache web service for use with the Amazon Alexa Skills Kit

PROJECTS

Cyber-plows –AI plow simulation Term project

- Experimentally compares search algorithms (BFS, A*, DLS) with the task of clearing snow from a grid-based maze.
- Created as an open-ended group project for Artificial Intelligence.

Web-starter-cli – A simple CLI for setting up web development boilerplates

- Installs front-end and back end-web frameworks (React, Django, Flask, and others) based on the user's specifications
- Project built from a product specification document composed by the group

Math Match – Children's Edutainment Game Term Project

- A simple, but engaging game intended for children learning math
- Developed in a group of 3 other students of varying backgrounds with a focus on design and documentation