Jeremy Zodi

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OBJECTIVE

Motivated and passionate software developer, looking to leverage my skillset in a full-time position in the field of computer science.

EDUCATION

B.S., Computer Science, expected May 2019
Virginia Tech, Blacksburg, VA
GPA: 3.55/4.0

WORK EXPERIENCE

Member, Autodrive Team (Software Subteam), Virginia Tech   March 2018 – Present
A diverse team of about 60 engineers building a fully autonomous Chevy Bolt Electric, competing against seven other schools in the GM and SAE sponsored four-year challenge.
▪ Collaborate effectively through the use of project management tools and agile development principles
▪ Develop and maintain GUI for the car with two other team members in C++ using Qt and QNX
▪ Simulate and test various desired autonomous features of the car
▪ Review, understand and thoroughly document code previously written by colleagues

Intern Software Developer, VTTI, Blacksburg, VA   June – August 2018
The Virginia Tech Transportation Institute is a facility of about 500 employees focused on advancing every aspect of transportation and solving challenges of the driving environment through innovation.
▪ Collaborated with team members to understand, document and learn how to use SOL, VTTI's main data processing software
▪ Took the initiative of implementing major changes in C++ code in SOL, a six-year-old software with a codebase of hundreds of co-dependent files
▪ Improved the maintainability, reliability, and overall quality of SOL

PROJECTS

MIPS Assembler, Computer Organization Class and Personal Project   Spring 2018
▪ Designed a parser and assembler coded in C to turn MIPS assembly code into binary machine language
▪ Gained a deeper understanding of the mechanisms behind instruction execution and the relationship between high-level programming languages and machine code

Music Website, GUI Class and Personal Project   Spring 2016
▪ Designed and launched a website for finding new music
▪ Gained experience using HTML, CSS, PHP, JavaScript, PHP and SQL

SKILLS

▪ **Programming Languages**: Proficient in Java, C/C++, Python, MIPS and x86 Assembly; familiar with HTML/CSS/JavaScript, Scheme, Prolog, Lua, and Ada
▪ **Frameworks and Tools**: GitHub, Linux, Qt, ROS, MATLAB, AutoCAD, Illustrator, Microsoft Office, Visual Studio, Eclipse
▪ **Foreign Languages**: Fluent in French; Intermediate in Spanish and Arabic; Beginner in Dutch

RELEVANT COURSEWORK

Data Structures and Algorithms; Computer Systems and Organization; Artificial Intelligence; Software Design and Problem Solving; GUI Programming; Data Analytics and Visualization