

Ryan Poppe
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Software Engineer

EDUCATION

University of Nevada, Las Vegas
Bachelor of Science: Computer Science
Minor in Mathematics

GPA: 3.2

Las Vegas, Nevada
May, 2021

RELEVANT COURSEWORK

- Systems Programming
- Computer Organization
- Data Structures
- Programming Languages
- Operating Systems
- Information Assurance
- Internet Security
- Compiler Construction
- Software Product Design
- Analysis of Algorithms
- Machine Learning
- Linear Algebra
- Probability & Statistics

TECHNICAL SKILLS

Proficient Languages: C++, JavaScript, Python

Familiar Languages: Assembly, Bash, C, C#, CSS, HTML, Java, JSON, LaTeX, MatLab, PHP, SQL, R, Ruby, VHDL, webAssembly

Tools: Adobe CC, Arduino, Azure, CodeBlocks, Docker, Doxygen, Emscripten, Git, Google G Suite, Jenkins, Jupyter Notebook, Microsoft Office, MySQL Database, Qt, Slack, Trello, Vim, Visual Studio, Wireshark

Extra: Agile Workflow, Continuous Integration, OOP, Unit Testing

PROJECT EXPERIENCE

Web Fonts *Senior Design Competition*

Aug, 2020 – Dec, 2020

- Developed a way to more easily render fonts on a web canvas
- Programmed & compiled C++ rendering engine to webAssembly
- Managed team with an Agile workflow through Trello
- Collaborated with team through Git & Slack

Social Media Analysis *Data Structures Project*

Jan, 2018 – May, 2018

- Designed code to find the top influencers in a social network
- Applied knowledge of data structures & graph theory
- Involved in class competition to see which student had the most efficient algorithm
- Sorted data with quicksort algorithm

FreeType for Javascript *Independent Study Project*

Jan, 2021 – May, 2021

- Adapted existing FreeType library to work in JavaScript
- Devised method to use FreeType through webAssembly
- Researched ShadowDOM

Race Car Instrument Cluster *UNLV Formula Racing Team*

Oct, 2020 – May, 2021

- Created driver display for the school's Formula race car
- Researched CAN-BUS network communication protocol
- Implemented cluster design with Qt
- Collaborated with team to develop a 3D printed prototype running on Raspberry Pi

Machine Learning *Machine Learning Course Projects*

Aug, 2020 – Dec, 2020

- Ran experiments on data with linear regression, logistic regression, k-nearest neighbor, & more
- Constructed models using Sklearn, Seaborn, Pandas, & other Python libraries

WORK EXPERIENCE

Meineke

Henderson, Nevada

Mechanic/Lead Technician

Mar, 2014 – Aug, 2020

- Job focused on problem solving to diagnose & repair vehicles
- Rebuilt engine from a pile of parts after a failed repair somewhere else

- Demonstrated strong communication skills & collaboration with sales team

LEADERSHIP WORK EXPERIENCE

Heartland Automotive

General Manager

- Managed sales team, technicians, & business operations
- Directed daily meetings & staff training programs

Henderson, Nevada
Feb, 2008 – Jun, 2013

INVOLVEMENT

SAE Formula Racing Team

Oct, 2020 – May, 2021