Nathan Jewell

ncjewell@gmail.com
github.com/NathanJewell
linkedin.com/in/nathanjewell

Education

Oregon State University Honors, B.S. in Computer Science (Dec 2020), GPA - 3.9

Coursework in: Data Structures, Algorithms, Security, Data Visualization

Wilson High School, Portland, Oregon (Jun 2017), GPA - 4.1

Skills

- **Coding** – Fluidity in Python, C/C++, JavaScript (and variants), and more
- **Technologies** – Git, GDB/PDB, Blockchain, Vim, IaaS/IaC, Embedded Systems, API Design, CUDA
- **Environments** – Linux, ROS, Docker, Windows, AWS, Node, CLI
- **Communication** – Concise, professional, informative
- **Collaboration** – A team player, who knows when to take ownership and when to ask for help

Experience

Technical Lead & Backend Engineer, ShoeBio Inc. (Apr 2018 – May 2019)

- Led 4-person team – hiring, delegating, managing, and budgeting
- Implemented containerized data generation with **Docker** and **AWS CloudFormation**
- Built **RESTful API** from ground up on **Serverless AWS** stack with **TypeScript**
- Wrote scalable microservices in **Node.js** and **Python**
- Developed non-relational database using **DynamoDB**

Software Engineer Intern, Cascade Custom Software (Jul – Sep 2017)

- Worked closely with client to implement new features on their internal sales tool
- Practiced **continuous integration** and **agile** workflow for clean production code
- Wrote features on a full stack using **JavaScript, C#** and, **SQL**

Contracted Frontend Programmer, Portland State U. Math Dept. (Dec 2016 – Jun 2018) intermittent

- Collaborated with a grad student and professor to develop online educational tools
- Implemented features and design specifications using **JavaScript**
- Available @ *abstractalgebraproject.github.io/LearningApp/*

Cloud Infrastructure Intern, Intel Corporation (Summer 2015)

- Worked with command line tools, **Python, agile** development, virtualization, and **Linux**
- Wrote patches for OpenStack and a telemetry framework called Snap.

Projects and Distinctions

F1Tenth Autonomous Racing [class/research] (Apr 2019 – Present)

- Winning team in class competition: over **150 autonomous laps** in 30 mins.
- Integrated and Optimized **formal verification** for hybrid systems on Jetson TX2
- Control systems implementation and tuning using **ROS**

Blockchain for Hemp Seed [capstone project] (Sep 2019 – Jun 2020)

- Designed and developed **novel blockchain** proof of concept, deployed full stack web app
- Worked with client to satisfy industry and consumer requirements, presented to investors and industry reps

Also: 3D N-Body simulation w/ CUDA
Game engine - *github.com/NFTIPF/Engine*
Oregon Game Project Challenge Programming Award (2015)
Custom Sound-Responsive LED-Strip (Python, Raspberry Pi)