

# Joseph D. Livni

SOFTWARE ENGINEER

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## Education

### University of Oregon

Eugene, Oregon

B.S. IN COMPUTER SCIENCE WITH A MINOR IN MATH, GPA 3.7

Expected Graduation - Dec. 2018

- Received the Summit and John R. Grossman Scholarship.

## Skills

**Programming** Python, JavaScript, Go, C/C++, MySQL, Git

**Web** Flask, Node.JS, React.JS, Redux, AWS, Docker

## Experience

### Qualtrics

Seattle, Washington

SOFTWARE INTERN

Jun. 2018 - Sept. 2018

- Developed and pushed to production a shadow testing service to decrease release candidate regressions through the use of a json parser to traverse, filter, compare, and return the differences in packet bodies.
- Increased throughput 20x with the implementation of a goroutine pool and Kafka queue integration.
- Tools: Golang, Docker, Kafka.

### BHS Pharmacy

Eugene, Oregon

SOFTWARE ENGINEER

Jun. 2017 - Apr. 2018

- Conceptualized and built a web application to facility the tracking and scheduling of medication for care facilities.
- Tools: Node.JS, React.JS, Redux, MySQL, SemanticUI, Immutable.JS, Mocha, AWS.

### Undergraduate Research, Security Lab (Prof. Jun Li)

Eugene, Oregon

RESEARCHER

Jun. 2017 - Sept. 2017

- Designed and produced an automated and scalable Twitter bot cluster to identify, collect, and analyze data from spam accounts by utilizing AWS Lambda instances, instantiated by the Python AWS API, Boto3.
- Increased application speed and saved hundreds of working hours by automating AWS security group instantiation.

### Stratus Digital Systems

Eugene, Oregon

SOFTWARE INTERN

Jun. 2016 - Mar. 2017

- Built production software that monitors, through AWS integrations, the uptime and stability of server cloaking, security clusters.

### Undergraduate Research, IOT Lab (Prof. Fickus)

Eugene, Oregon

RESEARCHER

Mar. 2016 - Jun. 2016

- Created a Raspberry Pi Emulator that replicates the sensory processing of a Raspberry Pi environment for utilization in research.
- Integrated with a D3 performance display and the GrovePi Library.

## Projects

### Load Optimized Chat Room

TOOLS: C++, UDP, NETWORKING.

2017

- Utilizes UDP transport layer to create custom server-client, chat room protocol.
- Optimized packet delivery load and speed through robust dynamic server clusters, flooding-pruning processes, and soft state.

### Process Scheduler

TOOLS: C, PROCESSES.

2017

- Takes a list of programs and then forks a process for each one and schedules the processes in time slices.
- Analyzes execution time, memory used, and I/O for each process.

### Team Generator

TOOLS: REACT.JS, REDUX, NODE.JS, MONGODB, IMMUTABLE.JS.

2016

- Allows instructors to create optimized, student programming teams based off custom survey data.
- Instructors can manipulate groups through a drag and drop interface and filtering and matching algorithms. that visualize matching success rate between users and groups.

## Extracurricular Activities

2018 **Captain**, Ultimate Frisbee

Eugene, Oregon

2016 **Lead Organizer**, Quackcon (+150 person athletic hackathon)

Eugene, Oregon

2015 **Member**, Debate Team (winning high school and collegiate record)

Eugene, Oregon