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 - Jan. 2019*
- Received the Summit and John R. Grossman Scholarship.

Skills

Programming	Python, JavaScript, Go, C/C++, MySQL, Linux, Git
Web	Flask, Node.JS, React.JS, Redux, AWS

Experience

Qualtrics   *Seattle, Washington*
SOFTWARE INTERN   *Jun. 2018 - Sept. 2018*
- Developing a Shadow Testing Service to decrease Release Candidate regressions through network packet analysis.
- 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 over 400 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.
- Visualized metrics and designed analysis controls in a real time React.JS dashboard.

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*