

# Joel Herrick

Seattle, WA

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## Education

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### Oregon State University

Bachelor of Science in Computer Science

- GPA: 3.86

Corvallis, OR

Exp. Mar. 2019

### Gustavus Adolphus College

Bachelor of Arts in Political Science

St Peter, MN

## Projects

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### Open Source Contributor – Washington Immigrant Solidarity Network

- WAISN's SMS Alert System allows users to subscribe to SMS notifications in their desired language.
- Our team of 5 was tasked with migrating user data from **MariaDB** to **AWS DynamoDB** and integrating with the ORM. Then deploying service to **AWS Lambda** and hooking up **API Gateway**.

### NBA Player of the Day Twitter App – 📷/playerOTD

- Serverless application deployed on **Azure** cloud and written in **C#**. On daily schedule, parses html to grab the stats of the player with the highest game score, then uses Twitter and YouTube APIs to publish stats and highlight video to Twitter.

### Rental Seeking Application – 📷/361-proj

- Web application built with **JavaScript**, **Node.JS** and **AJAX** alongside **SQL** and **MariaDB** that connects renters with property owners. Managed user information through relational databases and managed sessions information to allow users to save favorite properties.
- In a team of 4, utilized **Agile** development to have weekly standups and coordinate sprint goals with customer

### Socket-Based OTP Cryptography – 📷/otp-encrypt-decrypt

- Program written in **C** that encodes and decodes messages using one-time pad cryptographic system. Uses socket-based inter-process communication to exchange crypto-keys between clients and server daemons.
- Socket/network programming, multi-processing, I/O redirection, job control.

## Professional Experience

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### Immigration Advisor – Humboldt State University

- Program manager for BSMP, which doubled the amount of intl. students on campus

Arcata, CA

### Assoc. Director Colleges Division – g-MEO Inc.

- Institutional relations manager for midwest and west coast

New York, NY

### Editor & Translator – Shanghaiist.com

- Managed interns, translated and edited posts for the blogroll

Shanghai, CN

## Skills

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**Languages** Python, C++, C, C#, JavaScript, Assembly, Bash, HTML/CSS, SQL, Java

**Frameworks** Node.JS, Express, Django, Bootstrap, Kivy

**Databases** MySQL, MariaDB, AWS DynamoDB, MongoDB

**Tools** Docker, Git, Github, Pandas, Numpy, Matplotlib, Keras, Azure

## Activities

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- Intro to Machine Learning Workshop – Puget Sound Python Programming
- Member of PuPPy, WAISN Network 2017-Present
- Member of ACM 2006-Present
- Chinese Language Certificate – Fudan University