

# Adele Miller

Software Engineer with an interest in application security.  
Graduating B.S. in Informatics from U. of Washington in 2019.

<https://github.com/aamiller>

<https://aamiller.com/>

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## Professional Experience

### Regional Manager; Code Evangelist

**StudentRND & CodeDay Seattle** 2015 - Current

- Hosted 24-hour long programming events for 100+ student programmers
- Managed event logistics—catering, organizing volunteers,
- Ran the only CodeDay with new, contemporary workshops at each event

### Teaching Assistant

**Information School, University of Washington** 2017 - Current

*Core Methods in Data Science; Technical Foundations of Informatics*

- Design, develop and maintain web and native telemedicine applications that allow patients to consult with healthcare providers via video, anytime.
- Technologies: *Python (Pandas, Numpy, Altair), R (Dplyr, Ggplot2), Git, GitHub*

### Research Assistant

**Human Centered Design & Engineering, University of Washington** 2018

- Received NSF grant to gather requirements for and contribute to disaster recovery modeling tool
- Used grounded theory to analyze transcripts

### Software Engineering Intern

**Starbucks Corporation** 2018

*Business Intelligence and Data Engineering Team*

- Created tools in R and Tableau to support data hierarchy change
- First place in application security hackathon on Facebook-like application, competed against all non-security engineers

Technologies: *R, Tableau, SQL, Oracle Business Intelligence Enterprise Edition*

## Project Work

**Full-Stack Messaging Application** 2018

- Developed a feature complete messaging service akin to Slack, supporting sessions, web sockets and messaging queues

Technologies: *Go, Docker, NodeJS, Redis, Digital Ocean*

**Artificial Intelligence Agent for Chess** 2018

- Implemented AI techniques to create a chess agent, including minimax algorithm, alpha-beta pruning

Technologies: *Python*

**Healthcare Data Visualization** 2018

- Built an interactive user interface to help patients choose what hospital to go to base on their preferences

Technologies: *R*

**Journaling Application** 2018

- Developed a responsive, interactive application

Technologies: *React, JavaScript ES7, Firebase*

## Education

### University of Washington

**Bachelor of Science in Informatics**

Concentration in Cybersecurity

*Informatics is the combined study of Human-Computer-Interaction, project management and computer science.*

Graduating June 2019; 3.74 GPA

### Relevant Courses

- Data Structures & Algorithms
- Introduction to Artificial Intelligence
- Server-side Development
- Core Methods in Data Science
- Client-side Web Development
- Information Assurance and Cybersecurity

### Upcoming Courses

- Programming Languages
- Algorithms and Computational Complexity
- Application Security

## Skills

### Front-End Development

JavaScript ES7, React

### Data Visualization

Tableau, R and Shiny, Python, Leaflet

### Back-End Development

Golang, NodeJS

### Systems Administration

DigitalOcean, Docker

### Database Administration

MySQL, Firebase, Redis, PostgreSQL

### Application Security

BurpSuite, Postman, SQLI, XSS