

# JOANNA KO

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## EDUCATION

### B.S. COMPUTER SCIENCE, UNIVERSITY OF CALIFORNIA - IRVINE

- **Relevant Coursework:** Data Structure Implementation and Analysis, Introduction to AI, Principles of Operating System & Principles in System Design, Embedded Software, Concepts in Programming Languages, Project in Databases and Web Application, Computer Networks
- **Awards & Honors:** Deans Honor (5 Quarters): 2017 Fall Quarter, 2018 Spring Quarter, 2019 Winter Quarter, 2019 Fall Quarter, 2020 Winter Quarter
- **Extracurricular Activities:** Active member of Women in Information and Computer Science at University of California, Irvine

## EXPERIENCE

### JUL 2019 – PRESENT | JAVA

#### CLOUD MANAGEMENT BUSINESS UNIT – WAVEFRONT INTERN, VMWARE

- Created concise design documents for features and cost analysis
- Written Java tests for system and product features
- Presented tech talk on ingestion shape spying platform to team
- Extended platform used by customers to view metric ingestion data shape, adding features to group by ingestion source, spy on new id creations, and export data. Reconfigured program to create more scalable environment
- Understood end to end product life cycle

### SEP 2018 – APR 2019 | C++

#### GRAPH THEORY AND NETWORK ALIGNMENT RESEARCH, UNIVERSITY OF CALIFORNIA, IRVINE

- Researched graph theories and applied to biological networks
- Implemented graph traversals and histograms from graph data
- Dynamically searched for temperatures used in simulated annealing
- Fixed program bugs on incorrect program output

## PROJECTS

### FABFLIX | JAVA, SQL, JAVASCRIPT, HTML

- Built web-based application with DBMS techniques that searches and purchases movie titles
- Used AWS EC2 instances
- Optimized SQL Queries
- Used Android Studio for mobile application

### SENIOR LIVING CENTER WEBSITE | HTML, CSS, JAVASCRIPT

- Designed and built single page application using AngularJS
- Optimization of website features and designs

### TIC TAC TOE | JAVA

- Google Firebase and Android Studio
- Created Tic Tac Toe app against AI, logged and retrieve data stored in database

### DATA FREE API - UCSB HACKATHON | JAVASCRIPT

- Built SMS application using Twilio API to place phone calls or voice commands
- Parsed through JSON and connected to API, returning social media trends on Twitter, Reddit, YouTube, Weather and Google Maps