

JONATHAN CHEN

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EDUCATION

University of Washington – Seattle

Sept 2018 - June 2021

B.S. Computer Science, Minor in Statistics & Chinese

- 3.87 Cumulative GPA
- **Relevant Coursework:** Data Structures & Parallelism, Software Design & Implementation, System Software & Tools, Artificial Intelligence, Hardware/Software Interface, Human-Computer Interaction, and Discrete Mathematics I & II

PROFESSIONAL EXPERIENCE

CSE Undergraduate Teaching Assistant – University of Washington

Dec 2019 - Present

Seattle, WA

- Responsible for leading weekly class sections, holding office hours, writing exam questions, and grading assignments and exams for CSE 351 (Hardware/Software Interface)
- **Tools:** C, Linux

Information Technology Intern – Trident Seafoods

June 2019 - Dec 2019

Seattle, WA

- Administered Active Directory and System Center for a 6000+ user environment spanning 17 physical locations
- Developed and deployed PowerShell/AutoHotKey scripts, optimizing imaging process by 33% (120 mins/device → 80 mins/device)
- Spearheaded company-wide Windows 10 compatibility project by upgrading software/hardware of 400+ machines
- **Tools:** PowerShell, AutoHotKey, Active Directory, System Center

Information Security Intern – Federal Home Loan Bank of Des Moines

June 2018 - Sept 2018

Seattle, WA

- Researched and integrated optimizations to the user behavior analytics security infrastructure
- Analyzed data from 350+ active users to calibrate baseline behavior and deviations from normal activity
- Reduced volume of false positive behavioral alerts by ~96% (800 alerts/day → 30 alerts/day)
- **Tools:** Active Directory, System Center, VMWare, Varonis Data Security Platform

PROJECTS

Multi-Threaded Chess Engine

Sept 2019 – Dec 2019

- Group project leader in creating a chess bot by leveraging the Minimax and Alpha-Beta pruning algorithms, optimized for multi-core machines through Java's fork/join framework
- Capable of calculating best move up to 7 moves deep by analyzing and pruning an average of 8.5 billion nodes
- **Tools:** Java, Google Compute Engine
- www.github.com/jonathanchen7/chess-engine

Restaurant Generator Web App - RAFT

June 2019 – Nov 2019

- Developed a Django web application that generates a random restaurant to match a user's selected filters (location, price, cuisine, ratings, etc.)
- Implemented a fully responsive user interface for desktop, tablet, and mobile devices
- **Tools:** Python, Django, HTML, CSS, JavaScript, Bootstrap, SQLite, Yelp Fusion API, Google Places API
- www.github.com/jonathanchen7/raft

TECHNICAL SKILLS

Languages: Java, Python, C, JavaScript, HTML, CSS, PowerShell

Runtimes/Frameworks: Django, Node.js, React, Bootstrap

Database Management: SQLite

Natural Languages: Mandarin Chinese – Fluent