**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