

SERENA GILANI

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EDUCATION

University of Washington, Paul G. Allen School of Computer Science & Engineering

Seattle, WA

Bachelor of Science in Computer Science

June 2022

Interdisciplinary Honors Program

Cumulative GPA: 3.73

- Dean's List 4 quarters

EMPLOYMENT EXPERIENCE

Paul G. Allen School of Computer Science & Engineering, University of Washington

Seattle, WA

Head Teaching Assistant, Programming in Java II

June 2020 – Present

- Manage a group of 11 TA's and lead weekly staff meetings that introduce novel teaching strategies
- Maintain consistent grading standards by audit grading for over 100 students weekly
- Liaise with professor to prepare content for sections and staff meetings

Teaching Assistant, Programming in Java II

September 2019 - Present

- Lead section 2x per week of 25 students for UW's Programming in Java II that covers fundamental programming concepts including collections, stacks and queues, linked lists, binary trees, recursion, inheritance, and encapsulation
- Mentor students at the Introductory Programming Lab by debugging assignments and answering conceptual questions
- Grade weekly assignments, providing detailed feedback, and exams

First Year Programs, University of Washington

Seattle, WA

Orientation Leader

April – September 2019

- Led workshops, presentations, and discussions to provide ~8,000 first-year students with information and perspective about student life on campus
- Personally assisted ~400 students throughout the summer by connecting them to campus resources and providing individualized advice

Private Tutor

Seattle, WA

- Assist K-10 students with mastery of material in math & Spanish courses

August 2014 - Present

RESEARCH & VOLUNTEER EXPERIENCE

King County Air Support Project, Impact++

Seattle, WA

Front-End Developer

January – September 2019

- Collaborated with a team of UW students to design an internal database for the King County Air Support Unit
- Migrated the department's current equipment management system to a more efficient and streamlined database
- Used Angular JS while maintaining up-to-date and organized code base with Git

Aquaponics & Raspberry Pi pH Probe, Eastside Catholic High School

Sammamish, WA

Co-Founder

June 2016 – June 2018

- Built aquaponics system to potentially serve as a sustainable food source for areas with scarce access to produce
- Experimented with the installation of a pH probe into the aquaponics system, using a Raspberry Pi, that actively monitored pH levels to ensure its safety
- Partnered with Microsoft's aquaponics research team to troubleshoot system and experiment with plants and tank conditions

PERSONAL PROJECTS

TBD

CORE SKILL

Technical: Java, C, C++, Python, Git; Exposure to TypeScript, HTML, CSS

Skills: Active Listener, Team Driven, Goal Oriented, Fearless, Innovator

Development Tools: Visual Studio, IntelliJ, Eclipse, JGrasp