Dmitriy Shepelev

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EDUCATION

University of Washington — Seattle, WA | Graduated: June 2022

- B.S. Computer Science (Direct Admission): 3.90 GPA
- Relevant Coursework:
  - Distributed Systems
  - Data Structures & Parallelism
  - Algorithms
  - Operating Systems
  - Software Design & Implementation
  - Systems Programming
  - Data Management
  - Computer Security
  - Programming Languages

TECHNICAL SKILLS

- Java, C, C++, SQL, JavaScript, SQL++, OCaml, React, LaTeX, MATLAB
- Bash, Git, GitLab, AWS, Microsoft Azure, Agile

WORK EXPERIENCE

Software Development Engineer Intern – Amazon Web Services | June 2021 – September 2021 | Seattle, WA

- Developed a generic HTTP handler in **Java** that enables dynamic support of AWS IoT services' HTTP APIs
- Generic HTTP handler will save AWS engineers 2+ months of work **for each** HTTP API needing support

Undergraduate Research Assistant – University of Washington PLSE Group | June 2020 – September 2020 | Seattle, WA

- Found & fixed bugs in the Checker Framework, which extends the Java type checker to catch more bugs
- Used the Checker Framework to analyze signedness errors in GitHub repositories with unsigned arithmetic

TA for CSE 331: Software Design & Implementation – University of Washington | March 2020 – August 2020 | Seattle, WA

- Led & taught a 30-person section using active learning techniques, such as interactive worksheets
- Received a 4.7/5.0 instructor rating from students

Engineering Intern – Collins Aerospace (formerly Rockwell Collins) | June 2017 – August 2017 | Wilsonville, OR

- Pioneered a linear algebraic algorithm for a technology that will automatically align Heads-Up Displays' boresights
- Technology will save $500k+ for airlines who currently use expensive machinery for boresight alignment
- Presented my work to 50+ students, mentors, & community members in a symposium at the University of Portland

PROJECTS

- Dis' Systems: built a sharded, linearizable, highly available key-value store with atomic multi-key transactions in **Java**
- Software Design: built a GUI in **Java** & **React** that finds paths between UW buildings using a campus map & MVC
- Systems Programming: built a search engine for static content & webpages in **C** & **C++**
- Web Programming: built an ecommerce website for users to buy items using **JavaScript**, **HTML**, **CSS**, & **SQLite**

LEADERSHIP EXPERIENCE

President of Tualatin High School Speech & Debate Club | September 2017 – June 2019 | Tualatin, OR

- Taught speech & debate skills to new members, many of whom later placed in speech & debate tournaments
- Competed & placed in speech & debate tournaments

Appointed Representative to Tigard Youth Advisory Council (TYAC) | August 2017 – June 2019 | Tigard, OR

- Participated in street-cleanups, helped at food banks & charities, & led community events
- Wrote articles summarizing the TYAC's actions, which were published on the City of Tigard website

AWARDS

- UW Annual Dean's List – 2019-20
- President's Education Award – 2019
- 1st in Parliamentary Debate at Wilson Invitational Tournament – 2018
- 2nd in Word Processing at state FBLA competition – 2017