Adam Ali

(425) 268 - 5032 adamali@uw.edu yadoom.github.io

Education

Bachelor of Computer Science & Software Engineering — **GPA 3.7**
University of Washington Bothell — *Expected graduation in Dec. '18*

Highlighted Coursework

- **Spacecraft Mission Analysis & Design** *Spring '18*
  Team-based systems engineering and integration. Evolution of spaceflight, payload delivery and orbital systems, multi-planetary environments.
- **Computer Networking** *Spring '18*
  Packet switching and routing, traffic flow management, congestion control, security and performance, TCP/UDP/DNS protocols.
- **Database Systems** *Spring '18*
  Hierarchical, relational and network DB designs. Structured Query Language, data modeling.
- **Hardware & Computer Organization** *Winter '18*
  Low-level digital logic, memory, state machines, microprocessor firmware, instruction set design.
- **Operating Systems** *Fall '17*
  System architecture, memory management, process scheduling, resource allocation.
- **Data Structures & Algorithms I/II** *Winter/Spring '17*
  Algorithm analysis with mathematical reasoning. Binary/hex, trees/lists, searching and sorting.

Key Skills

- C++, Java, 68K Assembly
- UML
- Agile, Scrum
- Windows, Linux CLI
- Version control
- Technical writing
- Physically capable
- Strong in all of MS Office

Relevant Projects

68K Disassembler – *Hardware & Computer Organization* — **Mar. '18**
Translates machine code into human-readable 68K source.

ThreadOS File System – *Operating Systems* — **Dec. '17**
Implements a UNIX file system, including unit tests for many read/write types.

ThreadOS Scheduler – *Operating Systems* — **Nov. '17**
Implements the round robin algorithm to schedule thread tasks for a virtual operating system.

Media Inventory System – *Data Structures & Algorithms II* — **May '17**
Applies object-oriented design to validate, manage and search for inventory using databases.

Dijkstra's Shortest Path – *Data Structures & Algorithms II* — **May '17**
Calculates the shortest path from any source to any destination on a coordinate map system.

Image Segmentation – *Data Structures & Algorithms I* — **Mar. '17**
Implements an algorithm to partition images by scanning pixels and grouping by color.

Additional Experience

Math and Science Tutor — **'18 - Present**
Academic Link Outreach (non-profit) — *Kirkland, WA*
Motivate junior high school students about STEM to prepare them for exams.

Auto Parts Adviser — **'16 - Present**
AutoZone, Inc. — *Lynnwood, WA*
Perform diagnostics, troubleshoot, transfer and maintain light and heavy parts inventory.

Programming Tutor — **'14 - Present**
Self Employed — *Bothell, WA*
Engage high school students with exciting ways to solve problems and develop their skills.