Adam Ali

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Education

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

Highlighted Coursework

- **Data Structures & Algorithms I/II** *Spring '17*
  Binary, hexadecimal, trees, lists, arrays, heap/merge/quick sort and binary search. Algorithm analysis with mathematical reasoning.
- **Software Analysis & Design** *Fall '17*
  Team project based. Requirements and stakeholders, diagramming and prototyping, risk analysis, communication, presentations, progress reporting.
- **Operating Systems** *Fall '17*
  System architecture, memory management, process scheduling, resource allocation.
- **Hardware & Computer Organization** *Winter '18*
  Digital logic gates, memory design, state machines, microprocessor models, instruction set architecture.
- **Networking** *Spring '18*
  TCP/UDP, packet switching, routing, traffic flow management, security/performance.
- **Databases** *Spring '18*
  Hierarchical, relational and network DB designs. Structured Query Language, data modeling.

Key Skills

- C++, Java, 68K Assembly
- UML
- Agile, Scrum
- Windows, Linux CLI
- Version control, Git
- Technical writing
- Time management
- Problem solving

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 manage and search for inventory using multiple 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 and find parts for vehicles to deliver repair advice.

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