Adam Ali

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Education	**Bachelor of Computer Science & Software Engineering**	**GPA 3.7**
	University of Washington Bothell	**Mar. '19**

Highlighted Coursework

- **Data Structures & Algorithms I/II**
  3.5/3.9, Winter/Spring '17.
  Binary, hexadecimal, trees, lists, arrays, heap/merge/quick sort and binary search. Algorithm analysis with mathematical reasoning.

- **Software Analysis & Design**
  4.0, Fall '17.
  Team project based. Requirements and stakeholders, diagramming and prototyping, risk analysis, communication, presentations, progress reporting.

- **Operating Systems**
  3.7, Fall '17.
  System architecture, memory management, process scheduling, resource allocation.

- **Hardware & Computer Organization**
  In-progress, Winter '18.
  Digital logic gates, memory design, state machines, microprocessor models, instruction set architecture.

- **Networking**
  Registered, Spring '18.
  TCP/UDP, packet switching, routing, traffic flow management, security/performance.

- **Databases**
  Registered, Spring '18.
  Hierarchical, relational and network DB designs. Structured Query Language, Amazon Web Services.

Key Skills

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

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 - Now**
Academic Link Outreach   *Kirkland, WA*
Motivate junior high school students about STEM to prepare them for exams.

Auto Parts Adviser   **'16 - Now**
AutoZone, Inc.   *Lynnwood, WA*
Perform diagnostics, troubleshoot and find parts for vehicles to deliver repair advice.

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