Luke Laxton

linkedin.com/in/luke-laxton/

Email : laxton.luke@gmail.com
Phone : (509) 294-7408

EDUCATION

- **University of Washington** — Seattle, WA
  Bachelor of Science in Computer Science, 3.81 GPA — *2016 – 2019*
  - Courses include Data Structures and Parallelism, Systems Programming, Statistics for Data Science, Computer Vision, and Computer Security.
- **Lewis and Clark High School** — Spokane, WA
  National AP Scholar, 3.95 GPA (4.39 weighted) — *2012 – 2016*

WORK EXPERIENCE

- **Amazon.com** — Seattle, WA
  Software Development Engineer Intern — *June - September 2018*
  - Designed and implemented data structures to reduce memory usage and cut server costs by 30% for Herd, a distributed, high-traffic, workflow automation service.
  - Contributed to managing and maximizing concurrency in Java-backed distributed cloud services.
  - Provided high quality tests to maintain code base test coverage.
- **University of Washington Applied Physics Laboratory** — Seattle, WA
  IT Helpdesk Technician — *February 2017 – Present*
  - Provided technical support and assistance to nearly 1,000 users in the Applied Physics Laboratory network for their computing and networking needs.
  - Monitored and maintained 12 subnets across 5 locations of over 600 PC, Mac, and Linux workstations.
- **Itron, Inc.** — Liberty Lake, WA
  Systems Validation & Verification Intern — *June - September 2017*
  - Contributed to testing team's .NET-based test framework used to monitor RF packet communication between Itron's gas, water, and electric meters to ensure endpoint behavior met specification.
  - Improved framework with ability to load packet-capture files to analyze packet data from RF sniffer.

ADDITIONAL EXPERIENCE

- **Projects**:
  - Leveraged minimax algorithm to create a chess bot in Java. Used alpha-beta pruning and parallelism to reduce calculation time when determining and evaluating potential future board states.
  - Created a locally-hosted search engine web page in C++. Users could submit search queries to web interface (similar to Google) and the server would respond with all locations of matching text in a pre-determined set of texts.
  - Writing a library of image manipulation algorithms in C++. Capabilities include edge detection and panorama stitching.
- **High School FIRST Robotics Team #2944**:
  - Lead programmer, elected president by peers, managed communication and teamwork both within our team and with other teams at competition.
- **Boy Scouts of America, Eagle Scout**:
  - Over 400 hours of volunteer work over a period of 7 years on projects such as cleaning local campsites, restoring nature trails, and working food drives.
  - Dedicated nearly 40 hours to planning and coordinating my Eagle Scout community service project for a local church, involving landscaping a section and replacing over 300 feet of rope fence with a barrier of boulders.

SKILLS

- **Languages**: Experienced in Java; familiar with C, C++, Python; prior experience in C#, JavaScript, MATLAB, HTML, CSS.
- **Testing**: Practiced in writing unit tests using JUnit as well as integration tests.
- **Wireshark**: Experience inspecting and dissecting network packets with Wireshark.