

Duke P. Parks

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SUMMARY OF QUALIFICATIONS

- Process-oriented and great in a team
- Strong understanding of algorithms and data structures
- Quickly develops and debug production quality code
- Favors Java and Python and skilled in React JS, SQL, C, C++, and MATLAB
- Experienced in GIT and Version Control
- Proficient in object-oriented design
- Versed in data management, computer security, machine learning, computer vision, artificial intelligence, parallelism, web development, and UI design

EDUCATION

University of Washington | Seattle, WA

Graduated December 2022

- Major: Computer Science, BS
- GPA: 3.92
- Honors / Awards: Annual Dean's List x4, Purple & Gold Scholarship x4

EXPERIENCE

Amazon | Bellevue, WA - SDE Intern

July 2022 - September 2022

- Expanded functionality of an Alexa Music Skill to benefit customers
- Refactored existing codebase to streamline unit testing and increase readability
- Mobilized tools to efficiently write and debug production quality code in a Java environment
- Improved ability to gather valuable metrics on effectiveness of promotions
- Interacted with code pipelines to safely and effectively develop in parallel with Alexa Org
- Proved ability to plan and deliver quality software on a project that included multiple components

Projects

PCA vs DETR for Facial Recognition - [github](#)

May 2022 - June 2022

- Collaborated with my peers to create a qualitative analysis of the performance of a novel ML algorithm, DETR, and an old but useful method, Principal Component Analysis, when used for facial recognition.

Washington Superbike Firmware

October 2021 - April 2022

Worked with the Washington Superbike team to:

- improve lithium-ion state-of-charge estimation using machine learning algorithms
- Design a simple and easy-to-use GUI for dashboard in C environment