Kyle Parker

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ASPIRING ROBOTIST

Graduating in May 2025 from Washington State University with a bachelor's degree in Software Engineering. I am pursuing a PhD in Computer Science with a focus on Human-Centered Computing. I have a strong foundation in software design principles and a deep understanding of C/C++, along with command line usage and Git for version control. I am passionate about advancing assistive technologies while ensuring they safely interact with humans.

I possess strong leadership abilities, effectively guiding labs through clear communication to ensure sessions remain on schedule. Further, lab and assignment deadlines, extensions, and polices are clearly outlined in a clean document. With a deep desire to learn and improve continuously, I am committed to making a meaningful impact in the field of robotics and contributing to advancements of safe and productive human/spatial interactions.

I have a solid academic foundation, having completed coursework in Calculus I-III, Discrete Structures, Linear Algebra, and Differential Equations, along with Physics Level I and II for Engineers and Scientists. My studies in Electrical Engineering include Logic Circuits (Verilog) and Microprocessors (ARM9 Assembly), where I developed programs for a Blackboard (an ARM and FPGA development board) using the Vivado development studio.

Additionally, I have taken courses in Automata and Formal Languages, Systems Programming, Software Engineering I, Data Structures (C/C++), Programming Language Design, Senior Design, Reverse Hardware Engineering, and Cyber-Physical Systems. I am currently engaged in Probability and Statistics, Software Testing, Graph Theory, and Software Requirements.

SKILLS SUMMARY

Object Oriented Principals	C/C++	C#
Prototyping and Agile Software Models	Git	Haskell
Programming Language Design	Linux	macOS
Software Troubleshooting	Python	Dart
Agile Software Development	Swift	

PROFESSIONAL ACCOMPLISHMENTS

Teaching Assistant – Program Design and Development Fall Semester 2022 thru Present

Teaching Assistant (TA) – Washington State University Pullman, WA

- Primary TA for lab session assisting 18 students who work through a weekly assignment.
- Prepared content for labs emphasizing fundamental take away concepts from class.
- Provided detailed feedback on assignments to aid student's success.
- Held office hours for 2 hours per week for student questions and assistance on assignments.
- Assisted professor in creating a new programming assignment involving PostgreSQL [C++].
- Created install scripts for new assignment; PowerShell for Windows, ZSH for macOS & Linux.
- Collected and classified student work for department accreditation audit.

Full Stack Web Dev. – Ski Equip. Reservation Form July 2021 thru December 2021

Programmer – Mt. Shavano Ski Shop Salida, CO

- Redesigned and introduced robustness based on an oracle.
- Introduced feature to send customers a confirmation email.
- Introduced robust checks to ensure equipment is not double booked.
- Delivered prototypes every two weeks.

Internship – Information Technology Support July 2019 thru May 2020 and July 2021

Intern – Rock Canyon High School Littleton, CO

- Managed and upgraded onsite servers as needed.
- Worked in network closets around building.
- Created patch enabling legacy software to work on new devices [Bash].
- Created Excel spreadsheet for event check-ins.
- Imaged computer labs with Jamf Pro.
- Recycled old devices, removed reusable hardware before shipping.
- Setup and teardown of technology before and after school assemblies.

EDUCATION

B.S. Software Engineering, August 2020 – May 2025

Washington State University (GPA: 3.23)

CIS Programming Concentration, High School Concurrent, August 2019 – May 2020

Arapahoe Community College (GPA: 3.5)

High School Diploma, August 2016 – May 2020

Rock Canyon High School (GPA: 3.2)