

Patrick Larson

Software Developer

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PROFESSIONAL SUMMARY

I am a software developer with a proven track record of initiative and drive. I am proficient with .NET (C#, T-SQL), C++, and Python. I enjoy reaching out to work across disciplines to accomplish a broader mission. My previous experiences made me a team player with excellent communication and collaboration skills. I am mission oriented and love tackling new and diverse challenges.

PROJECTS – SELF-DIRECTED PROJECTS COMPLETED OUTSIDE OF CURRICULUM

Autonomous EV Charger – https://github.com/patrickslarson8/tesla_automatic_charger

- Earned Google TensorFlow Developer certificate (ID: 56236042)
- Developed object detection system using TensorFlow with Python
- Managed vehicle state using **REST API** in the **JSON** format

Flight School Database Application – <https://github.com/patrickslarson8/student-roster-database>

- Designed and implemented **user interface** and database schema
- Used **SQL** to manage backend and VBA to create exportable reports
- Created and maintained application throughout the full **software development lifecycle**

Resume Website – <https://github.com/patrickslarson8/patrickslarson8.github.io>

- Created to develop fundamental understanding of vanilla **javascript** and **CSS**
- Implements **responsive design** and is designed for both desktop and mobile viewing

EXPERIENCE

OCT 2022 – FEB 2023 MICROSOFT – SOFTWARE AND SYSTEMS ACADEMY

REMOTE

- Competitive and rigorous computer science fundamentals program
- Training in **C#**, T-SQL, Algorithms, Data Structures, and Git, with a focus on **test-driven development**
- **MVC** framework curriculum using common web tools including **HTML5**, **CSS**, **Javascript**, and **Bootstrap**

OCT 2021 – OCT 2022 U.S. ARMY – SOFTWARE ENGINEER

FORT RUCKER, AL

- **Road-mapped** database system enhancements and prioritized their implementation
- Worked outside scope to streamline outdated workflows and create new scheduling tools

JAN 2015 – OCT 2021 U.S. ARMY – HELICOPTER PILOT

FORT RUCKER, AL

- **Translated requirements** of supported units to develop mission profiles
- **Led teams** of 2 – 20 on projects ranging from 2 weeks to 9 months
- Routinely applied **analytical** and **problem-solving** skills to accomplish diverse missions

EDUCATION

Jan 2022 – Present WHITING SCHOOL OF ENGINEERING AT JOHNS HOPKINS UNIVERSITY
Master of Science in Artificial Intelligence

BALTIMORE, MD

- Anticipated completion Summer 2025
- 4.0 in related coursework

Jul 2011 – May 2015 UNITED STATES MILITARY ACADEMY
Bachelor of Science in Electrical Engineering

WEST POINT, NY

- Focus on computer hardware and networking fundamentals
- Selected for a competitive NSA-sponsored network security competition