

# Patrick Larson

## Software Engineer

github.com/patrickslarson8 • linkedin.com/in/patrick-larson8

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### PROFESSIONAL SUMMARY

I am a software engineer with seven years of experience in military service, including one year of experience developing and deploying mission-critical software solutions. I have an additional two years of experience coding for personal projects. My career made me a driven problem solver with excellent communication, collaboration, and customer service skills. My education focuses on hard engineering including electrical engineering, network management and security, and most recently artificial intelligence.

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### SELECTED ACCOMPLISHMENTS

- AI Project using computer vision to autonomously plug in an electric vehicle
    - Skills Leveraged: Python | TensorFlow | Computer Vision | Linux OS
  - Developed and maintained database application to track the progress of students through Army Aviation flight school, revolutionizing the administrative workflow
    - Skills Leveraged: SQL | Visual Basic | MS Access
  - Airport Check-in Queuing Simulation to study the principles of Object-Oriented Programming
    - Skills Leveraged: C++ | OOP
  - Desktop application project to manage classes, students, and teachers of an organization to learn the fundamentals of C#
    - Skills Leveraged: C# | SQL | OOP
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### CERTIFICATIONS

- TensorFlow Developer (ID: 56236042)
  - Azure Data Science Associate (ID: 994164510)
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### EXPERIENCE

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|--|---|---------------|
| Oct 2022 – Present   | <i>MICROSOFT – SOFTWARE AND SYSTEMS ACADEMY</i> | <i>REMOTE</i> |
| <ul style="list-style-type: none"><li>• Competitive and rigorous computer science fundamentals program</li><li>• Created and debugged over 20 console and desktop applications</li><li>• Training in skills including C#, T-SQL, Algorithms, Data Structures, OOP, HTML5, ASP.Net, and Git</li></ul> |   |               |

- Oct 2021 – Oct 2022     *U.S. ARMY – SENIOR INSTRUCTOR*     *FORT RUCKER, AL*
- Restructured organization improving instructor expertise and effectiveness
  - Streamlined outdated workflows by developing SharePoint sites and student tracking database
- Jan 2020 – Oct 2021     *U.S. ARMY – DOCTRINE INSTRUCTOR*     *FORT RUCKER, AL*
- Trained and mentored over 700 students in my tenure
  - Certified in Army Equal Opportunity and Resilience programs
- JAN 2017 – JAN 2020     *U.S. ARMY – HELICOPTER PLATOON LEADER*     *FORT HOOD, TX*
- Routinely deployed and maintained networks of computers in mission-critical roles, reducing planning and mission response times
  - Leveraged analytics software to exceed operational maintenance standards by 10%
  - Organized the daily operations and reporting of 40 personnel and flight operations including 350 flights and 1,400 flight hours with impeccable service to requesting units
- MAY 2015 – JAN 2017     *U.S. ARMY – HELICOPTER FLIGHT SCHOOL*     *FORT RUCKER, AL*
- Trained and certified in the Boeing CH-47F cargo helicopter
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## **EDUCATION**

- Jan 2022 – Present     *WHITING SCHOOL OF ENGINEERING AT JOHNS HOPKINS UNIVERSITY*     *BALTIMORE, MD*  
*Master of Science in Artificial Intelligence*
- Anticipated completion Summer 2024
  - 4.0 in related coursework
- Jul 2011 – May 2015     *UNITED STATES MILITARY ACADEMY*     *WEST POINT, NY*  
*Bachelor of Science in Electrical Engineering*
- Focus on computer hardware and networking fundamentals
  - Competed in an inaugural NSA-sponsored network security competition