

David Pye

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SUMMARY

Senior Software Engineer | C#.NET, TypeScript, AI Automation, Enterprise Desktop & Web Applications

Senior software engineer with **10+ years of experience** building enterprise automation and productivity software in remote environments. Experienced in C#.NET, TypeScript, desktop and web application development, cross-team collaboration, and AI-powered workflow tooling. Delivered automation features that **saved end users 3+ hours per day and improved developer productivity through agentic engineering initiatives**. Seeking a remote Senior Software Engineer role focused on product engineering, AI-enabled workflows, and scalable customer-facing software.

SKILLS

- **Languages:** C#, TypeScript, JavaScript, Java, Python, HTML, CSS, SQL, C/C++
- **Frameworks & Platforms:** .NET, React, Node.js, Spring Boot, REST APIs
- **Tools:** Git, GitHub, GitHub Copilot CLI, Visual Studio, MongoDB, PowerShell, Command Line, Artificial Intelligence
- **Practices:** Code Reviews, Agile, Test Automation, Cross-Team Collaboration

WORK EXPERIENCE

Pegasystems | Software Engineer

June 2017 - May 2026

Alpharetta, GA - *Remote*

- Built and shipped enterprise automation features in C#.NET and TypeScript for robotic process automation workflows **used by customers across 10+ industries**.
- Developed AI-powered Autopilot capabilities in Pega Robot Studio that reduced manual automation-building time and **helped customers save 3+ hours per day**.
- Delivered features across the Robot Studio desktop application and Web Extension Installer, improving automation workflow reliability and usability.
- **Integrated 10+ applications and environments**, including Chrome, Electron, Citrix, and legacy text emulators, expanding compatibility for enterprise customers.
- Contributed to internal agentic engineering initiatives that helped developers complete stories and issues faster.
- Owned feature design and implementation from requirements through release, partnering with product, QA, and engineering teams to deliver customer-facing enhancements.
- Performed code reviews and helped maintain engineering quality across shared codebases.

ADP | Software Engineer Intern

May 2019 - August 2019

Alpharetta, GA

- Built a proof of concept for a next-generation messaging platform using React, Java, Spring Boot, REST APIs, and MongoDB to support multichannel customer notifications.

Shaw Industries | Software Engineer Intern

August 2017 - December 2017

Plant 54 | *Collaborative Innovation Manufacturing*

- Developed dependency tracking website using HTML/CSS, TypeScript, and Aurelia
- Created Facial Recognition Lock using Python and Raspberry Pi.
- Worked on and led other co-ops during the LED improvement process using C/C++ and Arduino.

Shaw Industries | Software Engineer Intern

January 2017 - April 2017

Plant 1S | *Business Intelligence*

- Created QlikView app for Call Center to take in data, and analyzed data in R.
- Visual Studios and Teradata to show data tables using C#.

EDUCATION:

Kennesaw State University, Bachelor of Science in Computer Science

With a specialty in Artificial Intelligence

Relevant coursework: Artificial Intelligence, Machine Learning, Machine Vision, Data Structures, Algorithm Analysis, Intro to Database Systems, Operating Systems, Computer Organization and Architecture, Technical Writing.

PROJECTS

- **Kennesaw State University**
 - Built a machine learning plant identification mobile app as part of university coursework.
 - Created a HoloLens facial recognition application during a hackathon; earned **3rd place**
- **Personal Projects**
 - Created Smart Leds using C/C++ then created an iPhone and web app to send GET requests in Swift.
 - Built an AI agent project using OpenClaw to explore agent-driven workflows and developer automation.
 - pyelightstudios.com - Developed and deployed a photography website using React and Firebase, including client gallery functionality and cloud-backed content delivery.
 - Eagle Scout - Led Eagle Scout Project consisting of **275 man hours in less than 2 days**.