

Robert Pollum

Senior Software Developer at General Motors Information Technology

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Summary

Experienced Software Engineer with a history of working in the automotive industry.. Looking for the next challenge/opportunity to lead/mentor, collaborate, communicate, code, build and design.

Experience

General Motors July 2024 - June 2025
Senior Software Developer Warren, MI

- Contribute to code base by fixing numerous bugs and catching several bugs before they went to production, completing 4-5 features to deliver to business and developing User Stories before and during Sprint Planning.
- Developed script for resetting local environment that reduced time by minimally 10x along with Insomnia repo for testing APIs.
- Building out application in React, Next, Quarkus, PostgreSQL, Kubernetes, Docker, Swagger, C4, Insomnia, bash and git.

General Motors Aug 2021 - June 2024
Software Development Team Lead Warren, Michigan, United States

- Migrated a monolithic application from Oracle Weblogic to Apache Tomcat to save GM money on existing Oracle contracts.
- Documenting and establishing process in Java Docs, Swagger, C4 and OneNote while mentoring a team of 5-7 developers
- Designing and Building greenfield applications using React, Next, Spring Boot, Quarkus, PostgreSQL, Pivotal Cloud Foundry, Kubernetes, Docker, git and Python.

General Motors Feb 2015 - Aug 2021
Full Stack Software Developer Warren, Michigan

- Build/design greenfield emission reporting application using ExtJs, Microsoft SQL Server and Sprint Boot supporting Opel/Vauxhall divisions
- Migrate database platforms from Oracle to PostgreSQL to saving GM money on contracts.
- Support, upgrade, modify legacy applications with new business features using Apache Struts, Spring Framework, Angular, Vue, vanilla JavaScript, SVN and Git to support future vehicle architecture and marketing objectives.
- Lead SCRUM meetings and developed stories for agile based team translating requirements to User Stories.
- Mentored 3 newer developers to bring them up to speed on process, code base and general approach questions.

General Motors Sep 2014 - Feb 2015
Business Analyst Warren, Michigan

- Meticulously documented GM recall/warranty action processes for greenfield application removing ambiguity of requirements for waterfall project definition

Fraunhofer USA Nov 2011 - Aug 2014
Intern Engineering Research Complex, 1449 Engineering Research Court,

- Updated/maintained programs on Plasma and Chemical Vapor Deposition machines as business need arose
- Documented/labeled machine wiring for easier communication tracing
- Documented code with comments for future understanding
- Prototyped both software and devices for company.

Skills

React.js ● ● ● ● ● ○	JavaScript ● ● ● ● ● ○
HTML ● ● ● ● ● ○	Spring Boot ● ● ● ● ● ○
Shell/Bash Scripting ● ● ● ● ● ○	Quarkus ● ● ● ● ● ○
Next.js ● ● ● ● ● ○	CSS ● ● ● ● ● ○
Angular.js ● ● ● ● ● ○	Java ● ● ● ● ● ○
Linux ● ● ● ● ● ○	C4 Models ● ● ● ● ● ○
Vue ● ● ● ● ● ○	Ext.js ● ● ● ● ● ○
Python ● ● ● ● ● ○	Apache Kafka ● ● ● ● ● ○
LabVIEW ● ● ● ● ● ○	C++ ● ● ● ● ● ○
SharePoint ● ● ● ● ● ○	C# ● ● ● ● ● ○

Software Stack

JetBrains IntelliJ	Insomnia by Kong
Eclipse IDE	Microsoft VS Code
Docker	draw.io
Balsamiq	git

Awards

GM Transformers Award
Business Partner
June 2016

Interests

Smart Home Technology
Google Home, Home Assistant, Automation

Self Hosting Services
Raspberry Pi, Proxmox, Linux, NAS, Jellyfin, LXC

Playing Music
Guitar, Drums, Bass, Singing

Education

Michigan State University
Computer Engineering
3.34

2010 - 2014
Bachelor of Engineering (BE)

Volunteering

Grace Bible Church **March 2022 - Present**
Music/Audio Visual
Ann Arbor, MI
<https://gracea2.org>

- Playing various instruments on stage.
- Running slides for music and lighting for sanctuary.
- Mastering audio for in house live stream

Gospel Life Church **February 2018 - August 2021**
Musician/Barista/Teacher
Madison Heights, MI
<https://www.gospellifechurch.com/>

- Playing various instruments on stage.
- Made drinks for church goers before and after service
- Taught curriculum with teaching partner, developing lessons based on material.

FIRST Robotics **January 2016 - April 2019**
Mentor
Centerline Highschool, Centerline, MI
<https://frc-events.firstinspires.org/team/4815>

- Reviewed code of robotics members
- Teach the basics of C++ and code design/development
- Ensure safety while students work with tools/electronics to build robot
- Guide design ideas to ensure they can succeed

Audio Enthusiasts and Engineers **September 2010 - May 2014**
Member/Volunteer/Presenter
East Lansing, MI
<https://www.aeemsu.com/>

- Presented on guitar wood and tone affect
- Volunteered for setup/teardown of group hosted event
- Assembled/studied circuitry of music equipment
- Recruited for group during the fall

Big Brothers Big Sisters **2006 - 2009**
Mentor
Ubly Community Schools, Ubly, MI

- Mentored little brothers, taking time to talk about challenging elementary/middle school topics.

References

Jesse Stricklin
Software Engineer
Mobile: (248) 794-3969

Jared Lynch
Full Stack Software Developer
Mobile: (989) 280-1674

David Pement
Software Developer
Mobile: (586) 265-1472