DAVID TROYER

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SUMMARY

Results-driven Technical Lead and Senior Software Engineer with over 15 years of experience architecting scalable web applications, cloud services, and automated test solutions. Proven ability to enhance productivity, drive high-impact projects, and successfully collaborate with remote and cross-functional teams to deliver impactful solutions. Passionate advocate for diversity, empathy-driven leadership, continuous learning, and best practices in software engineering.

EXPERIENCE

Software Engineer/Developer III

University of Wisconsin-Madison, School of Medicine and Public Health   August 2018 - Present, Madison, WI

- Leads a team of developers and DevOps engineers in standardizing software architecture methodologies and development workflows to elevate team efficiency using Docker, Jenkins, and Terraform.
- Develops and maintains custom web applications and services using Ruby, Rails, Python, JavaScript, and React, while contributing to streamlined artificial intelligence workflows across a large clinical and research team.
- Coordinates communication between the web development team and administrative groups, aligning project execution with business requirements and strategic objectives.

Web Developer

Carnegie Mellon University, University Advancement   Jun 2016 – Jul 2018, Pittsburgh, PA

- Engineered, enhanced, deployed and maintained web applications and RESTful web services for the University Advancement division.
- Worked independently and was responsible for all stages of user interfacing, development, testing, maintenance and deployment.
- Contributed to a large transition of University Advancement systems to Salesforce, including integrations and frontend and backend customizations.

Software Engineer & Partner

Thinkering, LLC   Jan 2014 – Dec 2017, Pittsburgh, PA

- Co-founded a custom software solutions business focused on smaller clients with web and mobile and UX design needs.
- Engineered new and enhanced existing web applications using Ruby, Rails, Angular and React, coordinating with stakeholders to deliver the maximum value in their software, often with aggressive time and budget constraints.

Software Engineer in Test

UPMC Enterprises   Oct 2012 – Aug 2014, Pittsburgh, PA

- Engineered automated tests for a scalable big data distributed system using Ruby, Rails, MongoDB and client web applications.
- Embraced Behavior Driven and Agile Development as Scrum Master in a cross-functional Agile team.
- Formed departmental best practices in functional, component and integration test automation as a lead Software Engineer in Test.
- Quickly established as a vital contributor to the organization, promoted within 16 months of employment and Departmental Employee of the Month, June 2013.

Quality Assurance Developer

KidsVoice   Mar 2009 – Oct 2012, Pittsburgh, PA

Application Developer & Intern

Americast, Inc.   Oct 2006 – Jul 2007, Harrisonburg, VA

EDUCATION

Master of Liberal Arts, Software Engineering

Harvard University Extension School • Expected Graduation: 2026 • 3.95 / 4.0

Relevant Coursework:

1. Computer Vision
2. Systems Programming and Machine Organization
3. Artificial Intelligence with Python
4. Cloud Services, Infrastructure and Computing
5. Web Application Development with Jamstack
6. Programming in Scala for Big Data Systems

B.S., Computer Science

Eastern Mennonite University • Sep 2003 - Dec 2007 • 3.7 / 4.0

INVOLVEMENT

Hoofer's Sailing Club • 2024 - Present

Madison Bikes • 2019 - Present

Bikes for Kids • 2019

Bike Pittsburgh • 2008-2018

Penn's Corner Farm Alliance • 2012-2014

SKILLS

Ruby, Python, JavaScript, PHP

Rails, React, NextJS, Tensorflow, Jamstack

MySQL, Postgres, MongoDB

Docker, Compose, AWS, Git

Jenkins, Terraform, GitLab Runners, Github Actions, CI/CD