

# Paul Hahn

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## Summary

Experienced Software Engineer specializing in scalable, cost-effective solutions. Proficient in Go, Python, Docker, AWS, and cloud-native architectures. Demonstrated success in delivering maintainable, secure, and high-impact software systems. Quick to adapt and master new technologies.

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## Skills

- Programming Languages: Go, Python, Kotlin, Java, Typescript, Bash
  - Frameworks: Django, Angular, LEMP stack
  - DevOps & Cloud: Docker, AWS, CI/CD, Linux, Infrastructure as Code
  - Data: PostgreSQL, Redis, ETL, NLP, Data Analysis
  - Practices: Modular architecture, secure coding, technical documentation, unit testing, agile methodologies, microservices, REST API, containerization, scalability, security
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## Education

### California University of Pennsylvania

Bachelor of Science in Computer Science, May 2016

GPA: 3.37 (Major)

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## Experience

### Advanced Software Development Engineer

*Solventum – Remote | Sep 2016 – Present*

- Developed secure ETL pipelines integrating support ticketing systems with production data sources, improving data accessibility and compliance.
- Designed and deployed centralized traffic broker using Go microservices and Redis, increasing system scalability and reliability.
- Packaged and published reusable Python modules to internal PyPI servers, reducing development time by 30%.
- Built and maintained scalable LEMP-stack platforms with logical replication, achieving 99.99% uptime.
- Created visualization tools for user editing trends and anomaly detection, enabling proactive issue resolution.
- Trained sentiment models to identify user frustration, reducing customer escalations by 15%.
- Maintained tooling for unstructured data analysis in NLP workflows, enhancing data insights.
- Led feature development, resolved bugs, and triaged issues across multiple production systems.

### Web Development Consultant

*Freelance – Remote | May 2015 – Sep 2025*

- Developed and deployed custom web applications for small businesses using Python, Go, Django, Docker, and AWS.
- Implemented secure authentication and responsive design, improving user engagement.

### Software Consultant

*Parametric Technology Corporation – Uniontown, PA | May 2016 – Sep 2016*

- Built Windchill feature enhancements and conducted client data migrations using Java and JSP.
- Authored technical documentation for internal and client use.

### Computer Science & Math Tutor

*California University of Pennsylvania – California, PA | Spring 2014 – Spring 2016*

- Tutored students in Java, C++, C, and Algebra courses.
- Led group and individual study sessions.