

Elijah Hauber

SOFTWARE ENGINEER

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Professional Summary

Driven Software Engineer with 7 years of experience architecting and deploying scalable AWS solutions, integrating legacy systems, and automating end-to-end workflows. Skilled in Python, Terraform, and cloud-native services with a growth mindset willing to stretch beyond AWS into other cloud platforms and LLM agentic pipeline workflows.

Technical Skills

- **Programming Languages:** Python, JavaScript, Java, C, C++, C#, Apache Velocity, Apache Spark, HTML, CSS
- **Cloud and Infrastructure:** AWS (CloudFormation, EC2, ALB, Route 53, API Gateway, Lambda, S3, CloudFront, EFS), Terraform, Docker
- **Databases:** MongoDB (NoSQL), SAP ASE (Sybase), PostgreSQL
- **DevOps and Tools:** Git, GitHub, SQL (DBever), Swagger, Postman, iTerm2, Vim, Visual Studio Code, Cursor, SSH, FFmpeg, LogRocket, Sentry
- **Operating Systems:** macOS, Linux, Windows
- **Collaboration and Communication:** Slack, Google Meet, Zoom, Figma, Microsoft Teams, Discord, Google Workspace (Docs, Sheets, Drive)
- **AI and LLM Engineering:** Context management and retrieval strategies (RAG), LLM API integration (OpenAI, Anthropic), Vector database (Atlas Vector Search), LangChain

Certifications

- Microsoft Certified: Azure Fundamentals
 - <https://learn.microsoft.com/en-us/users/elih-8332/credentials/da01972dcb698ef2>

Work Experience

Software Engineer | 2018-2025

Parus Holdings LLC.

- Built and deployed a dedicated and reliable AWS SQS queue system with Terraform for taking in arbitrary parameters that were then forwarded to Mailchimp's Mandrill API to send out emails for notifications. The queue worker was an AWS Lambda with Python.
- Wrote documentation and change request implementation. Tested my own releases by both recording my screen with audio explaining the testing. In addition, I used an internal automated API core functionality endpoint that I built with Postman's test runner.
- Integrated with third party construction API using AWS Glue connected to MongoDB Atlas in an ETL process.
- In early 2025, led the full-stack development of a smart notification system using Mailchimp's Mandrill, in-line email body templating, a React frontend, AWS Step Functions, SQS, and Lambda. The system integrated with LangChain, leveraging both OpenAI and Claude APIs to deliver personalized reminders based on user activity in MongoDB Atlas.
- Built and deployed a full-stack AWS-hosted password reset service in Python 3.7 with uWSGI (managed via systemd) and Nginx on EC2 behind an ALB and Route 53, integrating Twilio for SMS, Mandrill for email, Sybase legacy DB access via pyodbc, and DynamoDB for session storage.
- Primarily worked as a back-end engineer; in more recent years, expanded to front-end and full-stack roles

Software Engineer | 2018-2025 (Continued)

Parus Holdings LLC.

- Contributed to the creation and maintenance of media ingestion AWS EC2 servers using EFS for shared file directories written in Python to allow a React frontend to upload pieces of video with audio, use ffmpeg to combine them, and convert from formats like mov to mp4 so that the video was playable on more devices.
- Maintained PHP web applications (signup and login) and an API promptly updating with requested changes and hot fixes.

IT Security Operator | 2017-2018

Purdue University

- Respond to electronic tickets submitted by users of the Purdue University internet network.
- Classify tickets as spam, phishing, update request, or compromised email account.
- Investigate logs using CLI grep to look into issues like compromised accounts, or students that pirated information
- Warn users through email after repeated offenses about disabling their accounts.
- Inactivate/disable accounts as warranted.
- Re-enable accounts after verifying the user met documented conditions.

Academic History

Purdue University West Lafayette | 2014-2018

Bachelor of Science in Computer Science, Security Track

- GPA: 3.29/4.00
- Relevant Coursework: Problem Solving and Object-Oriented Programming, Data Structures and Algorithms, Software Engineering, Software Testing, Operating Systems, Systems Programming, Computer Security, Cryptography, and Information Systems.

References Available Upon Request
