

Mary Tish Phillips

Full-Stack Software Engineer

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EXPERIENCE

Software Applications Engineer

June 2025 – Present

HP Inc.

Houston, TX

- Owned backend development of the script generation component of an AI-driven remediation system that automatically resolves reported device issues, now handling 60% of support ticket volume (44,000+ tickets/year); delivered within a compressed three-month timeline in Q3 2026, ahead of schedule.
- Currently extending the script generation component into a related feature targeted for delivery within Q4 2026.
- Developed AI-powered recommendation and analysis features contributing to a six-feature portfolio collectively responsible for 9 customer deals worth \$1.07M+ in Q1 2026.
- Appointed to serve on a committee guiding organization-wide AI adoption and governance: created AI agents and skills used by other teams to build AI features, and authored internal guides that currently have ~1,000 views.
- Mentored engineers, including senior engineers, on AI software development, and led a workshop on AI development tools and AI feature development best practices.
- Interviewed intern candidates and served as primary mentor for the intern hired, providing structured onboarding, regular check-ins, and cross-team introductions.

Software Engineering Intern

May 2024 – August 2024

HP Inc.

Houston, TX

- Automated device issue remediation by developing an AI-powered PowerShell assistant proof of concept.
- Showcased AI-driven remediation viability to leadership, leading to full feature development.

Application Development Intern

May 2023 – August 2023

BNSF Railway

Fort Worth, TX

- Developed several UI features for an Angular web application used for employee management.

Fashion Model

September 2013 – August 2021

Signed with 9 agencies worldwide; clients included Vogue, Vera Wang, Neiman Marcus, and Celine.

EDUCATION

B.S. in Computer Science and History, Minor in Mathematics

August 2021 – May 2025

Trinity University

San Antonio, TX

- Cumulative GPA: 3.8/4.0; Computer Science GPA: 3.9/4.0.

PROJECTS

Twine

September 2026 – Present

- Conceived, designed, and solo-built an iOS app for couples to log dates, using React Native and Expo.
- Backed it with Supabase/Postgres, using row-level security and PostGIS-based location search.

LCSS-US.com

July 2024 – August 2024

- Developed a website for a local business using React, TypeScript, Node.js, Express.js, and Python.

PUBLICATIONS

Phillips, M. T., Tuba, E., & Tuba, M. (2026). Recognition of AI-Generated Images Using Convolutional Neural Networks. Evolution in Computational Intelligence, 1, 325–335. https://doi.org/10.1007/978-3-032-18849-6_28

- Received Best Paper award at the FICTA Conference in London, U.K.
- Proposes a convolutional neural network for AI-generated image detection achieving 95.47% validation accuracy.

SKILLS

Full-Stack & Databases: Python, Java, C++, Scala, SQL, TypeScript, JavaScript, HTML5, CSS, Angular, React, Spring Boot, Node.js, WebSocket, RESTful APIs, microservices, MongoDB, PostgreSQL, Neo4j

Cloud & DevOps: AWS Lambda, AWS S3, AWS SQS, AWS SNS, Docker, Kubernetes, Terraform, Git, PyTest, JUnit

AI & ML: Pydantic AI, AWS Strands, retrieval-augmented generation (RAG), knowledge graphs, MCP servers, guardrails, AWS AgentCore, SageMaker, Bedrock, Claude Code, TensorFlow, PyTorch