

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 system that auto-resolves device issues, now handling 60% of support tickets (44,000+/year); delivered ahead of schedule.
- Extending the script generation component into a new feature, targeted for delivery in Q4 2026.
- Built the backend and part of the frontend for AI-powered recommendation and analysis features in a six-feature portfolio credited with 9 customer deals worth \$1.07M+ in Q1 2026.
- Appointed to the committee guiding org-wide AI adoption and governance: built AI agents and skills used by other teams to ship AI features, and wrote internal guides with ~1,000 views.
- Led a workshop on AI development tools and AI feature best practices for 30 engineers, and mentored peers, including senior engineers, on building AI software.
- 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

- Built the full-stack proof of concept for an AI assistant that automates device issue remediation in PowerShell.
- Demoed it to leadership, who approved full development; it became the system now resolving 60% of support tickets.

Application Development Intern

May 2023 – August 2023

BNSF Railway

Fort Worth, TX

- Built UI features in Angular and TypeScript for an internal employee management web app.

Fashion Model

September 2013 – August 2021

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

New York, NY

PROJECTS

Twine | twine-official.com

August 2026 – Present

- Solo-built a React Native app (~250 users) for couples: shared date ideas, photos unlocked once both post, date map.
- Built the Supabase/Postgres backend with row-level security for couple-private data and PostGIS place search.

Style Blend | style-blend.com

October 2025 – February 2026

- Designed, branded, and solo-built a cross-platform app (~100 users) blending fashion influences into a personal style.
- Integrated the Claude API (structured outputs, streaming) to tag clothing photos, build outfits, and rank wardrobe gaps.

C-Polar Technologies | cpolar.tech

October 2026 – Present

- Rebuilding the company's website end to end, from gathering client requirements through design and development.

SKILLS

Languages: Python, TypeScript, JavaScript, Java, Scala, C++, SQL

Frontend: HTML, CSS, React, React Native, Expo, Angular

Backend & Databases: Node.js, Express.js, Spring Boot, RESTful APIs, microservices, PostgreSQL, Supabase, MongoDB, Redis

Cloud, DevOps & Testing: AWS Lambda, S3, SQS, SNS, Docker, Kubernetes, Terraform, Azure Pipelines, Jest, PyTest, JUnit

AI & ML: agentic workflows, Pydantic AI, AWS Strands, AWS AgentCore, MCP servers, RAG, knowledge graphs, guardrails, Datadog Agent Observability, Claude API, Claude Code, Bedrock, SageMaker, TensorFlow, PyTorch

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.

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

- Won the Best Paper award at the FICTA Conference in London, U.K.
- Built a CNN in TensorFlow and PyTorch that detects AI-generated images with 95.47% validation accuracy.