

Michael Powell

EXPERIENCE

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Amazon, New York, NY

February 2022 – Present

Software Development Engineer II

- Designed and developed tooling for Internal Audit using **TypeScript/React** and **Python** on **AWS**, serving ~100 auditors and 10,000+ unique users across Amazon.
- Key contributor to the design and development of an audit issue management system serving all of Internal Audit—providing audit finding tracking for auditors, plus dashboards and workflows used by business owners across Amazon to respond to audits, update action items, and upload evidence.
- Led team-wide projects end to end: translated requirements into architecture, authored and presented designs in design reviews, orchestrated engineering work, and coordinated user acceptance testing and deployment.
- Leading development of an agentic **AI engineering toolkit** covering the full SDLC with human-in-the-loop controls: co-authors design documents with engineers, decomposes work into tickets, spins up implementation agents that write code with unit and integration tests, self-reviews, submits pull requests, and addresses review feedback.
- Built an **AI oncall assistant** that diagnoses production alarms by pulling error logs from **AWS** accounts, analyzing error patterns, and cross-referencing source code in Git to identify root cause.
- Delivered customer-facing AI features, including a writing assistant built on **Amazon Bedrock** that helps auditors draft finding language; partnered directly with auditors on prototypes shortlisted for the product roadmap.
- Mentored peers and junior engineers on best practices, implementation, and workflow optimizations; fostered open, transparent collaboration and standardization across a team distributed across multiple offices.

ChyronHego, Melville, NY

August 2016 – January 2022

Senior Software Engineer

- Core engineer for CAMIO, a premier template-based asset management solution for graphics used by broadcast companies globally—built on **C# .NET WCF** services and **SQL Server**, with a frontend **React** web application and several **Node.js** services.
- Modernized a customer-facing **ASP.NET** and **JavaScript** web application using **React** and **Redux**, which improved user experience, performance, and maintainability, and reduced technical debt.
- Built a **REST** API using **C#** and **ASP.NET Web API** to streamline development and facilitate testing.
- Researched cloud migration feasibility and deployed a proof of concept in **AWS**.
- Mentored my team on technology choices, workflow improvements, and code quality; partnered with customers and internal teams across timezones to troubleshoot and resolve issues quickly.

SITA, Bohemia, NY

April 2012 – August 2016

Software Engineer

- Core engineer for a **C# .NET** software system that provides airports and airlines the ability to track and validate passengers, as well as provide real-time statistics stored in a **SQL Server** database.
- Developed a passenger-facing check-in application for airport kiosks, championing **React** and **Electron** to bypass compatibility issues of the host technology stack.
- Designed and implemented the primary device management module used to control device logic for hardware such as self-boarding gates, biometric scanners, barcode readers, and passport scanners.
- Built prototypes for airports that showcased the platform's potential and strengthened customer confidence ahead of deployments.
- Mentored my team and oversaw the transition from TFS to Git, redefining the development workflow to reduce friction and overhead during release cycles and sprints.

FragranceNet.com, Deer Park, NY

December 2010 – April 2012

Software Engineer

- Designed, developed, and maintained a large-scale custom order management system processing over 10,000 orders a day from the FragranceNet website and drop-shippers such as Amazon.com and Walgreens.
- Designed and implemented many crucial components such as returns, order ship dispatching (processing orders for shipments) and order line editing and cancellation.
- Improved one of the core order processing components to increase processing performance by 100% and eliminated reliability issues that had caused downtime.

EDUCATION

Hofstra University, Hempstead, NY

May 2009

Bachelor of Science, Computer Science

TECHNICAL SKILLS

- Languages: **C#**, **TypeScript/JavaScript**, **Python**, **SQL**, **HTML/CSS**
- Frontend: **React**, **Redux**, **Electron**
- Backend: **.NET**, **Node.js**, **REST APIs**, **SQL Server**, **PostgreSQL**
- Cloud & Infrastructure: **AWS** (**ECS**, **EC2**, **S3**, **CloudFront**, **RDS**, **CodePipeline**, **Bedrock**), **Docker**, **CI/CD**, **Git**
- AI/Agentic Systems: **Amazon Bedrock**, **Claude Code**, **Codex**, **Kiro**; agentic workflow and human-in-the-loop design