

Nathan Ferdowski

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Education University of Illinois Urbana-Champaign
Bachelors of Science, Computer Engineer 2018

- Experience**
- SkillStorm**
Jul 24 - Oct 24 Power Platform Developer (C#, JavaScript, TypeScript, HTML, Azure Functions, Cosmos DB)
- Developed scalable business applications for both external users and internal teams using Canvas Apps, Model-Driven Apps, Power Automate, and Power Pages integrated with Dataverse.
 - Created and exposed custom REST APIs using Azure Functions to securely perform CRUD operations on Cosmos DB, enabling dynamic data retrieval and updates from Power Platform apps.
 - Managed environments and security by utilizing business units, security groups and security roles.
 - Streamlined business workflows by automating approvals, notifications, and data transformations with Power Automate flows integrated into end-user applications.
- PMM**
Mar 23 - Jun 24 Co-Founder & Software Engineer (Next.js, PostgreSQL, AWS EC2, AWS S3, Solana Pay, Git)
- Developed a custom clothing e-commerce platform using Next.js and PostgreSQL to allow users to upload images for print-on-demand apparel.
 - Deployed the full-stack application on AWS EC2 and used S3 to store user-uploaded assets and product mockups.
 - Built an admin dashboard to manage orders, track production, and analyze customer and sales data, enabling data-driven decisions to improve product offerings and marketing strategy.
- AT&T**
Feb 19 - Jan 22 Software Engineer (Angular, Node.js, TypeScript, Vega-Lite, Splunk, Micro-Frontend)
- Front-End developer for a cybersecurity visualization web application using Angular, Node.js, Vega-Lite and a Micro-Frontend architecture.
 - Investigated log data in Splunk, and built a rule based heuristic model to detect security threats.
 - Performed data analysis on internal AT&T data, created reports, and presented to executives.
- Projects**
- Apr 25 - Apr 25 **Distributed Logistics Tracker** (Spring Boot, RabbitMQ, PostgreSQL, Docker)
- Built a microservices-based logistics simulation using Spring Boot, with services for intake, routing, and tracking packages.
 - Implemented asynchronous communication between services using RabbitMQ queues to simulate real-world message passing in distributed systems.
 - Built a containerized PostgreSQL environment using Docker to mirror production conditions and support isolated service testing.
- Mar 25 - Apr 25 **Litecoin Whale Watcher** (Python, PostgreSQL, AWS EC2, Docker, Nginx, Node.js, Express)
- Built a full-stack crypto analytics tool that tracks the top 200 Litecoin addresses activity.
 - Automated whale transaction detection using Python and APIs, sending alerts to a Telegram group.
 - Containerized and deployed a PostgreSQL database with Docker on AWS EC2 to persist and query wallet transaction data.
 - Created a secure REST API using Node.js and Express to serve tracked whale data, reverse-proxied behind NGINX with HTTPS via Let's Encrypt.
- Feb 25 - Feb 25 **Premier Fantasy App** (Spring Boot, PostgreSQL, Next.js, Web Scraping)
- Built an interactive FIFA Ultimate Team-style web app where users can build their fantasy team.
 - Engineered a full-stack architecture with a Spring Boot backend and PostgreSQL database, exposing RESTful APIs for efficient player data management.
 - Automated the extraction of player statistics via web scraping, cleaning and structuring player data for persistent storage and API consumption.
- Jan 25 - Jan 25 **Personal Website** (Next.js, Tailwind CSS, Vercel, GitHub)
- Developed a responsive personal website utilizing Next.js to showcase professional information.
 - Deployed on Vercel through GitHub, enabling continuous deployment and high availability.
 - Live at nathanferdowski.dev

Skills: JavaScript, Python, Java, PostgreSQL, Node.js, REST APIs, Git, Docker, CI/CD, Cloud Architecture, DevOps, Agile

Certifications: AWS Solutions Architect Associate, Microsoft Power Platform Functional Consultant, Google Data Analytics Professional