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)
- Utilized Power Platform such as dataverse, canvas apps, model driven apps, power automate and power pages to create applications for external users and internal employees.
- Created custom REST APIs using azure functions to perform CRUD operations on CosmosDB.
- Managed environments and security by utilizing business units, security groups and security roles.

AT&T

Feb 19 - Dec 21 — Software Engineer (Angular, Node.js, TypeScript, Splunk)
- 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.
- Designed and configured Dockerized PostgreSQL for a production-like local development environment with isolated services.

Mar 25 - Apr 25 — **Litecoin Whale Tracker** (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.

Mar 25 - Mar 25 — **Premier Fantasy App** (Spring Boot, PostgreSQL, Next.js, Tailwind, Render, Supabase)
- 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.

Feb 25 - Feb 25 — **Personal Website** (Next.js, Tailwind CSS, Vercel, GitHub) (https://nathanferdowski.dev)
- Developed a responsive personal website utilizing Next.js to showcase professional information.
- Deployed on Vercel through GitHub, enabling continuous deployment and high availability.

Jul 24 - Aug 24 — **Loan Application App** (JavaScript, HTML)
- Built a loan application using Power Platform where authenticated users could apply for a loan.
- Managed dataverse for the database, created power pages for the users, and created canvas and model driven apps for internal employees.

Jan 24 - Feb 24 — **Portfolio Tracker** (React, PostgreSQL, AWS EC2, AWS Lambda)
- Built a full-stack cryptocurrency portfolio tracker using React and PostgreSQL.
- Deployed the frontend application and hosted the PostgreSQL database on an AWS EC2 instance.
- Leveraged AWS Lambda with CloudWatch Events to automate daily portfolio value calculations.

Jan 23 - Feb 23 — **NFT Collection** (JavaScript, Solidity, Ganache, Truffle)
- Minted my own NFT collection of 500 unique images on the OpenSea Test Network.
- Wrote smart contract for ERC721 token using Solidity, tested and deployed with Truffle.

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