Nathan Ferdowski

nathanferdowski@gmail.com   240-620-9661

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 (TypeScript, JavaScript, HTML)
- Front-End developer for a cybersecurity visualization web application using Angular, Node.js, Vega-Lite and a Micro-Frontend architecture.
- Performed data analysis on internal AT&T data, created reports, and presented to executives.
- Investigated log data in Splunk, and built a rule based heuristic model to detect security threats.

Projects

Mar 25 - Apr 25 — **Premier Fantasy App** (Spring Boot, PostgreSQL, Next.js, Tailwind)
- Built an interactive FIFA Ultimate Team-style web app allowing users to visually build their Premier League fantasy soccer team
- Engineered a full-stack architecture with a Spring Boot backend (hosted on Render) and PostgreSQL database (Supabase), 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

Mar 25 - Apr 25 — **Litecoin Analysis** (Python, Matplotlib, Pine Script)
- Created a log log power model to analyze Litecoin price data to identify trend patterns.
- Exported the model to TradingView with custom Pine Script for real-time visualization.
- Produced YouTube videos to present model findings and share technical analysis.
- Automated the detection of major Litecoin wallet transactions and activity spikes using Python.

Feb 25 - Feb 25 — **Personal Website** (Next.js, Tailwind CSS, Vercel, GitHub) (https://nathan-ferdowski.vercel.app)
- Developed a responsive personal website utilizing Next.js to showcase professional information, including resume, projects, and interests.
- Deployed on Vercel through GitHub integration, enabling continuous deployment, efficient updates, and high availability.

Feb 25 - Feb 25 — **Bookmarker Chrome Extension** (JavaScript, HTML)
- Developed a Chrome Extension enabling users to add custom bookmarks to YouTube videos.
- Injected UI components directly into YouTube's video player using DOM manipulation and MutationObservers.

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.
- Connected Lambda securely to the database to update user portfolio values on a scheduled basis.

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.

Skills: Angular, Data Analysis, Java, JavaScript, PostgreSQL, Python, React, Spring Boot, Web Development

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