Daniel Yamakov

yamakov03.github.io

EDUCATION

The University of Texas at Austin – Austin, TX   Aug 2021 – May 2025 Expected
BS/MS Integrated Program, Electrical and Computer Engineering
Concentration: Software Engineering and Systems – **Cumulative GPA:** 3.65/4.00

SKILLS

Programming Languages: Python, Java, JavaScript, C++, HTML, CSS
Tools/Frameworks: React, Next.js, Tailwind CSS, Redux, Node.js, Docker, Flask, Bootstrap
Database and Cloud: Azure Cloud, PostgreSQL, Oracle, MongoDB

WORK EXPERIENCE

Hewlett Packard Enterprise – Houston, TX   May 2023 - Present
Software Engineer Intern – Product Security Response Team
- Developing an SDK and CLI for company-wide vulnerability tracker platform to improve usability of endpoints
- Responsible for developing platform's landing page dashboard used to track package vulnerabilities across all HPE products
- Addressing regular production bugs and improvements in existing service using Jira and iterating with CI/CD pipeline

State Street – Austin, TX   Jan 2023 – May 2023
AI/ML Engineer Intern – Big Data team
- Architected and implemented new services to detect anomalies in financial information through ensemble-based learning
- Designed RESTful APIs to integrate with backend and interfaced with Kafka and S3 to store, process and resolve requests
- Created web application UIs with React and designed new components for corporate UI design system
- Developed amidst transition to Azure Public Cloud, working with Docker and Helm to build for new target environment
- **Leveraged knowledge** in React, API development, server-side integration, Docker

Talen Energy – Houston, TX   June – Aug 2022
Commercial Analyst Intern – Crypto team
- Developed a suite of performance reporting tools in C# .NET and Python to extract information from large scale data
- Proposed and implemented a new bitcoin miner automation tool that lowered energy usage by more than 15%
- Streamlined data integrations and automated reporting workflows through scripting in Python and SQL
- Developed a predictive financial model that determines historical and projected fleet performance using statistical methods
- **Leveraged knowledge** in C# .NET, Python, Azure SQL Server, predictive modeling

Datos Technologies – Houston, TX   Oct 2019 – Jan 2020
Software Engineer Intern – Product development
- Maintained a popular point-of-sale Android application that allows users to apply smart discounts to inventory
- Refactored legacy codebase and deployed restructured app, increasing code coverage by more than 25%
- Identified test KPIs to measure system robustness, wrote comprehensive unit tests and resolved production bugs
- Contributed to complete software development life cycle for development, testing, and code optimization
- **Leveraged knowledge** in Java, Git, Unit testing, Gradle, Android Studio

PROJECTS

Spotify Web Client built with Next.js (spotifynxt.vercel.app)
- Developed a highly customizable SPA Spotify web client that lets users modify the UI to match their mood
- Leveraged Recoil for global state, Tailwind for design, and integrated with Spotify API/SDK to play, edit, and get music
- Handled authentication with oauth and JWT with token auto-refresh

Real-Time News Parser Web App (justthenews-flask-app.onrender.com)
- Developed a web app using Python and Flask that scrapes articles to display trending news in a UI built with Bootstrap
- Leveraged Newspaper3k to scrape content and NLTK library to summarize articles using natural language processing
- Utilized: Python, Flask, Bootstrap, JavaScript, NLP

Secure Notes Web App (litenotes-flask-web-app.onrender.com)
- Developed a full-stack web app using Python and Flask allowing users to securely store information in the cloud or locally
- Designed RESTful server integrated with PostgreSQL and middleware leveraging tokenization, AES-256 session encryption
- Leveraged Bootstrap to create intuitive mobile-first UI and implemented CKeditor library for rich language support
- Utilized: Python, Flask, Bootstrap, HTML/CSS, Local Persistent Data, Caching, Cloud Storage, PostgreSQL