

# Daniel Yamakov

Full portfolio:  
<https://yamakov03.github.io/>

## EDUCATION

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**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

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**Programming Languages:** Python, Java, C++, C# .NET  
**Web Development:** JavaScript (React, Node.js), Flask, Bootstrap, HTML/ CSS  
**Database and Cloud:** SQL, Amazon Redshift, Azure SQL Server, SQLite, PostgreSQL, MongoDB

## WORK EXPERIENCE

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**Hewlett Packard Enterprise** – Houston, TX (May 2023 - Present)  
*Intern Software Engineer*

**State Street** – Austin, TX (Jan – May 2023)  
*Intern AI/ML Engineer*

- Deployed a new anomaly detection service to production that leverages ML to detect fraudulent transactions.
- Implemented new APIs to operate with Kafka service and S3 ephemeral object store for single and batch job processing.
- Updated UI using React and designed new components for corporate design system, integrated with Node.js backend.
- Improved platform framework to support future services by standardizing endpoint access to OCR services in VMs.
- Leveraged knowledge in React, Node.js, client-server architecture, REST APIs, UI/UX Testing.

**Talen Energy** – Houston, TX (June – Aug 2022)  
*Intern Commercial Analyst*

- Built and deployed a Bitcoin miner automation tool using live market data, improving profitability by 15%.
- Developed suite of P&L and performance reporting tools in C# .NET with automated email reporting using SMTP server.
- Synthesized internal and external datasets with SQL scripts and integrated solutions to Redshift production database.
- Designed trading framework for Gemini crypto wallet by building bespoke technical indicators in TradingView.
- Leveraged knowledge in C# .NET, SQL, Azure SQL Server, REST APIs, Bitcoin P2P protocol.

**Datos Technologies** – Houston, TX (Oct 2019 – Jan 2020)  
*Intern Software Engineer*

- Maintained a popular point-of-sale Android application that provides data-driven pricing on client inventory.
- Refactored 50% of legacy code and deployed restructured app with significantly greater code coverage.
- Identified test KPIs to measure system robustness and performed stress testing using the UI Monkey.
- Contributed to complete software development life cycle for development, testing, and code optimization.
- Leveraged knowledge in Java, Git, JUnit testing, Gradle, Android Studio.

## PROJECTS

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**Full Stack Notes Web Application** (<https://litenotes-flask-web-app.onrender.com/>)

- Developed a full-stack CRUD web app using Python and Flask that allows users to easily create, edit, and store notes.
- Designed RESTful backend server enabling users and notes to be stored persistently in cloud PostgreSQL database.
- Leveraged Bootstrap to create intuitive mobile-first UI and implemented CKeditor library for multimedia support.
- Implemented cryptographic protection with tokenization, hashing protocols, and SHA256 session encryption.
- Utilized: Python, Flask, Bootstrap, HTML/CSS, Local Persistent Data, Caching, Cloud Storage, SQLite.

**Prophet and NLP Stock Prediction Library**

- Designed and deployed a Python library leveraging Meta Prophet (autoregressive model) and yFinance to predict stock prices.
- Integrated NLP keyword extraction and Google Trends API to correlate historical volatility to market sentiment.
- Deployed a trading strategy using the library, outperforming the S&P500 by 14% yearly on 2000-2018 market data.
- Utilized: Python, Meta Prophet, Natural Language Processing, Matplotlib, Linux shell.

**Real-Time News Parser Website** (<https://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.
- Implemented filter by category and search by term functionality, returning trending articles for a specific request.
- Utilized: Python, Flask, Bootstrap, JavaScript, NLP libraries.