

Daniel Yamakov

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🔗 [yamakov03.github.io](https://github.com/yamakov03)

EDUCATION

University of Texas at Austin

Aug. 2021 – May 2024

Bachelor of Science in Electrical and Computer Engineering (GPA: 3.72/4.00)

Austin, TX

TECHNICAL SKILLS

Languages: Python, Java, JavaScript/TypeScript, HTML/CSS, C, C++, Bash, SQL

Frameworks/Libraries: React, Node.js, scikit-learn, pandas, Flask, TailwindCSS, Bootstrap, JUnit

Technologies: Git, Docker, MongoDB, PostgreSQL, Oracle DB, AWS, Postman, Android SDK, S3, Kafka

EXPERIENCE

Software Engineer Intern

May 2023 – Jan 2024

Hewlett Packard Enterprise

Houston, TX

- Designed and deployed an external CLI tool used by 200+ HPE suppliers to validate software artifacts
- Created a Python SDK, CLI, and rich documentation for company-wide open-source vulnerability tracker
- Built a vulnerability tracker dashboard with React, enabling product owners to gain real-time KPI insights
- Created an automated VEX report generation tool used company-wide for compliance with CISA
- Designed new REST APIs using Node.js Express to provide access to new data-driven vulnerability insights
- Wrote Python scripts to expand package extraction capabilities from SCAs like Black Duck and Snyk
- Addressed regular production bugs and implemented new platform features by iterating with CI/CD pipeline

AI/ML Software Engineer Intern

Jan. 2023 – May 2023

State Street Corporation

Austin, TX

- Spearheaded design and implementation of an ML-driven anomaly detection application using Python (Flask, SciPy, scikit-learn), React, Kubernetes and Amazon S3, EC2 to handle 1000+ daily requests from over 10,000 users
- Designed new REST APIs to integrate existing and new services together with Kafka, S3, and Oracle DB pipeline
- Performed rigorous end-to-end testing and validated APIs with Postman to optimize API performance
- Introduced linting, code coverage and testing to maintain software quality throughout the development pipeline
- Developed amidst migration to Azure Cloud, working with Docker/Helm/S3 to build for new target environment

Commercial Analyst Intern (Crypto)

Jun. 2022 – Aug. 2022

Talen Energy

Houston, TX

- Designed, proposed, and deployed a high-throughput bitcoin mining strategy that lowers energy usage by 15%
- Built automated performance reporting tools in C# .NET to extract actionable insights from big data
- Identified and resolved critical data capture bugs in Azure SQL Database to ensure integrity of live data
- Streamlined data integrations and automated reporting workflows through scripting in C#, Python, and SQL
- Led weekly holistic performance reviews with suppliers and key stakeholders to optimize crypto mining strategy

PROJECTS

Colorify Extension | *React, TailwindCSS, Chrome API, Plasmo SDK*

github.com/yamakov03/colorify

- An open-source browser extension designed to modify the look of any web element on any website
- Handles real-time CSS selections to inject CSS and persist changes to selected elems even on dynamic sites
- Leverages Chrome sync storage to persist changes on page reload and syncs changes across devices

Spotify Clone | *React, Next.js 13, Recoil, TailwindCSS, Nextauth*

spotifynxt.vercel.app (email for access)

- A Spotify web client built with Next.js that introduces a highly customizable UI and rich theming options
- Leveraged Recoil for global state, Tailwind CSS, and Spotify API/SDK to browse, edit, and play from user library
- Implemented middleware with NextAuth.js and JWT to handle user authentication and token auto-refresh

Just The News Web App | *Python, Flask, Bootstrap, JavaScript*

justthenews-flask-app.onrender.com

- A web app that scrapes trending news articles across broad categories and custom search terms in real-time
- Leveraged Newspaper3k to scrape content and NLTK to summarize content using natural language processing
- Designed a mobile-first UI with Bootstrap, optimizing user readability and accessibility on any device

See more at yamakov03.github.io