Daniel Yamakov

Austin, TX 78705

✉ yamakov03@gmail.com   in linkedin.com/in/danielyamakov   ○ yamakov03.github.io

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, C, C++, Bash, SQL, HTML/CSS
Frameworks/Libraries: React, Next.js, Express, Node.js, scikit-learn, pandas, Flask, 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*

- Built and deployed an external Python CLI app used by 200+ HPE suppliers to automatically validate SBOMs
- Created a Python SDK, CLI, and rich Markdown documentation using FastAPI and Flask for ProdSec platform
- Built the ProdSec platform's dashboard with React and Express to provide real-time product vulnerability insights
- Created a VEX report generation Python CLI and Express API to automate compliance reporting
- Built new REST API endpoints with Express and mssql driver to provide access to new vulnerability insights
- Developed Python tooling to integrate package extraction capabilities of SCAs with internal ProdSec platform
- 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 React, Express, Python, Kafka and Amazon S3, EC2 to handle 1000+ daily requests from over 10,000 users
- Built a performant REST API in Express to integrate the service with Kafka event topic and S3 ephemeral store
- Built frontend React components/forms and designed a responsive landing page for the service with Grommet UI
- Performed rigorous end-to-end testing, reaching 90% coverage, and validated API performance with Postman
- Improved typesafety by introducing Typescript and migrated a legacy codebase from Python 2 to 3
- Developed amidst migration to Azure Cloud, working with Docker/Helm/S3 to deploy to new target environment

Commercial Analyst Intern   Jun. 2022 – Aug. 2022

Talen Energy   *Houston, TX*

- Proposed, built, and deployed a high-throughput bitcoin mining strategy that lowers energy usage by 15%
- Built an app that tracks and reports mining performance with live market data using C# .NET and SMTP server
- Performed rigorous data validation with Alteryx, identifying and resolving critical data capture errors
- Streamlined data integration and automated reporting workflows through scripting in 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 Chrome extension to modify the look of any HTML element on any website through CSS injection
- Select an HTML element, modify it, and persist changes to HTML elements, even on dynamic sites
- Leverages Chrome sync storage to persist changes on DOM refresh and syncs changes across Chrome devices

Toolio | *React, Next.js 14, MongoDB, Material Tailwind, NextAuth*   toolio-next.vercel.app/

- An example lightweight project management platform and marketplace for teams to manage project resources
- Designed scalable data fetching with non-relational document storage using MongoDB and Next.js API routes
- Built a responsive frontend with TailwindCSS and Material UI to handle dynamic CRUD operations with ease

Just The News | *Python, NLKT, 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