Daniel Yamakov

Austin, TX 78705

✉ yamakov03@gmail.com in linkedin.com/in/danielyamakov 👤 yamakov.tech

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, Next.js, Node.js, Express, Redux, Flask, TailwindCSS, Bootstrap, Grommet
Technologies: Git, Docker, Kubernetes, MongoDB, AWS, Postman, PostgreSQL, Oracle DB, Kafka, Jira

EXPERIENCE

Software Engineer Intern   May 2023 – Jan 2024
Hewlett Packard Enterprise   *Remote, Houston, TX*
- Developed high-impact tooling and applications for product security to automate processes and ensure compliance
- Fixed production bugs and implemented new platform features by iterating with CI/CD and JIRA
- Created and deployed an external tool used by more than 200 HPE suppliers to validate software artifacts
- Designed performant SDK and CLI for vulnerability tracker platform using GraphQL, Python and OpenAPI
- Implemented scalable backend REST APIs using Express and Redux ensuring 99.9% operation uptime
- Designed and developed vulnerability tracker dashboard using React, Grommet, and Apache ECharts
- Created software artifact generation framework in Python to ensure software reporting compliance with CISA

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 AWS (EC2, S3) to handle 1000+ requests from over 10,000 users daily
- Designed efficient, unsupervised ensemble-based approach handling collection, preprocessing, learning, and analysis
- Implemented high-performance RESTful APIs to integrate the service into Kafka, S3, and Oracle DB pipeline
- Leveraged Postman CLI to automate API validation and performed rigorous end-to-end testing to ensure quality
- Developed amidst migration to Azure Public Cloud, leveraging Helm and Kubernetes to build for new environment

Commercial Analyst Intern   Jun. 2022 – Aug. 2022
Talen Energy   *Houston, TX*
- Implemented high-performance, scalable market tracker and tooling in C# .NET, handling 50,000+ daily messages
- Designed high-throughput automation firmware for crypto miners in C# that increased revenue by 15%+
- Created scalable APIs for mining configuration and performance monitoring, handling 50k+ daily requests.
- Automated data validation via scripting which identified and resolved critical data capture errors in production
- Streamlined data integrations and automated reporting workflows through scripting in C#, Python, and SQL
- Spearheaded weekly holistic performance reviews with key stakeholders to optimize crypto mining strategy

PROJECTS

colorify. | *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 render
- 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)
- An SPA-based Spotify web client built with Next.js that lets users customize the UI and improves accessibility
- Leverages Recoil for global state, Tailwind CSS, and Spotify API/SDK to browse, edit, and play from user library
- Implements middleware with NextAuth.js and JWT to handle user authentication and token auto-refresh

JustTheNews 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
- Leverages 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

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