Kenneth Udovic

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Summary

Young professional looking to advance his career and skill set in developer / leadership roles to program Full Stack, Big Data, AI, Computer Graphics, DevOps, and IT applications.

Education

Bachelor of Science (B.S.) in Computer Science - GPA: 3.4   *Graduated May, 2016*
Minor in Entrepreneurship, *Rutgers University – New Brunswick*

Skills and Qualifications

Programming / Scripting Languages:	Typescript, PHP, Rust, C#, Bash
Front End Web Libraries and Frameworks:	React / React Native, Svelte, Vue, Angular, jQuery
Stylesheet Libraries:	Tailwind, Radix UI, Headless UI, MUI, Bootstrap
Backend Frameworks and Solutions:	NodeJS (NextJs, Express), Laravel, Axum, ASP.NET
Databases:	MySQL, Postgres, Microsoft SQL Server, MongoDb, Cassandra

Work History

Senior Applications Developer, *Rutgers University of New Brunswick, Department of Continuing Studies*
April 2018 – Present (May 2023)

- Acts as lead developer of full-stack web applications for Information Technology at Continuing Studies
- Performs code review and manages Student and Junior Developers to accomplish goals in a timely manner
- Introduced Continuous Integration and Containerized Applications via Podman, Systemd, GitHub Actions, and Rundeck
- Utilized AWS EC2 to deploy multi-server solutions for online conferences supporting WebRTC powered virtual classrooms for 400+ attendees on short notice.
- Deployed and configured instance of Keycloak to interface with Shibboleth SSO + Apereo CAS in order to modernize SSO for the department's applications, and have an OIDC protocol for the university sign-in
- Built a highly productive web application monorepo utilizing Turbo Repo, NextJS, Prisma, TRPC, Postgres and authentication with university through above mentioned Keycloak instance using NextAuth.
- Assembled frontend solutions to show multi million row datasets seamlessly
- Transitions legacy applications to Docker containers
- Produced paginated search powered by Elasticsearch with filtering tag system driven by Laravel
- Created flexible handcrafted chart building system written with D3 and Svelte
- Utilized QGIS, D3, and Topojson to create an interactive heatmap library to display NJ Data.
- Built Dockerized process to build unique compressed binary datafile from Oracle database which powers the frontend application and allows for performant offline use of PWA
- Published full featured React Native application to Android and IOS app stores which link various native libraries including Firebase drivers to display push notifications
- Integrated QR-Code scanning and GL-powered 3d model viewing on multi-platform mobile app.
- Wrote a lean forum system which allowed social interaction of conference attendees with admin dashboard and content filters to help reduce the threat of explicit content.
- Coordinated NodeJS Websocket servers, Redis, and PHP for an event system
- Handled various PDF invoice generation and payment processing libraries
- Utilized OpenSSL and GPG for flat file encryption
- Configures various linters for PHP and Typescript Ecosystems
- Maintains and configures multiple web server technologies including Nginx, Apache, and Caddy
- Evaluates newest technologies for application development team
- Familiar with AWS Ecosystem (ECS, EKS, Lambda…), Kubernetes, K3S, Rancher, and ArgoCD

Software Engineer, *Fusion Health*
August 2016 – May 2017

- Developed Full-stack Single Page Web Applications with integration of EMR software, G.E. Healthcare's *Centricity,* for Medical Facilities in Correctional Environments.
- Created a robust templating, publishing, and encryption system for legal EMR documents.
- Integrated digital signature and fingerprint signature capabilities
- Prototyped various applications which have become full-featured products
- Scripted Data Migration Software interfacing EMR applications' Pharmaceutical datasets, allowing for accurate transition of inmate prescription data

Technical Intern, *Processor Innovations Corporation*
January 2015 – August 2016

- Developed mapping application for calculating and graphing antenna signal strength
- Performed data analysis of solar panel purchase and tax records for business intelligence purposes.
- Built and repaired old computer towers - Configured Linux servers