


KENNETH UDOVIC

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 <https://github.com/Handfish>

SUMMARY

Established senior professional aiming to further enhance expertise and leadership in Full Stack development, Big Data analytics, AI integration, Computer Graphics innovation, DevOps optimization, and Distributed Systems architecture.

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 <i>April 2018 - Present (February 2024)</i>
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
Assembled 3d charting layer with React Three Fibre
Software Engineer, Fusion Health <i>August 2016 - May 2017</i>
Developed Full-stack Single Page Web Applications with integration of EMR software, G.E. Healthcare's <i>Centricity</i> , 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 <i>January 2015 - August 2016</i>
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