SAAD JAHANZEB TAJ

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TECHNICAL SKILLS

Languages: JavaScript · TypeScript · SQL · Python · C
Frameworks: React.js · Express.js · NextJS · Angular
Technologies: PostgreSQL · MongoDB · Docker · Kubernetes · Firebase

EDUCATION

University of Waterloo - Bachelor of Mathematics   *September 2018 – April 2023*

EXPERIENCE

TK Events Inc - Software Developer   *June 2023 – December 2024*
- Led the design and development of an innovative virtual event studio using Figma, Material UI, PostgreSQL, and NextJS
- Architected high-performance scalable microservices using a mix of MVC and Domain-Driven Design principles
- Reduced API calls by 20% using caching layers and optimized database queries
- Orchestrated transition to AWS EC2 instances from Docker containers, utilizing S3 buckets and RDS instances for storage across multiple AZs
- Leveraged server-side rendering (SSR) for enhanced performance, reducing load times by 25% and boosting SEO
- Personally demoed at Go West, Canada's premier event industry gathering. Worked directly with target market, anticipating their needs and translating their requests to actionable work tickets

Alertdriving - Software Engineer   *September 2022 – December 2022*
- Supported a PHP-based Moodle LMS E-Learning platform, servicing thousands of driver safety courses in over 125 countries
- Developed a new SCORM Manifest management system by brainstorming with team members, demonstrating capabilities by creating a working prototype with CRUD support

Harled Inc - Software Developer   *January 2022 – April 2022*
- Collaborated in building transformational software for the Royal Canadian Air Force using Ruby on Rails, helping bring the military into the information age
- Implemented full-stack features while constructively engaging with PO and clients, from cron-jobs and data migrations to UX design
- Championed "Learn, Create, Teach", an initiative facilitating efficient team knowledge transfer to compete with much larger private sector competitors

The Co-operators - DevOps Engineer   *May 2021 – September 2021*
- Developed and demoed SCM to Deployment Pipeline Webhook POC, eliminating overhead by 5 minutes
- Automated away tedious Jenkins-Build configurations through Groovy scripting
- Debugged and deployed new client-facing features using SQL and Angular

Bentley Systems - Software Developer   *January – April, September – December 2020*
- Worked within an agile environment creating customer and developer-facing User Interface components using React and Sass CSS on an Azure Cloud Platform
- Added client-side caching to improve performance by 25%
- Designed a customizable settings page in TypeScript, enabling better developer feature testing
- Wrote, debugged, and updated unit tests to increase code coverage via Jest and Enzyme
- Utilized DOS scripting in PowerShell to improve software installation speed by 50%