

# Jashandeep Singh

+91 (985) 557-5315 | jashan.62@outlook.com | j268sing.github.io/portfolio | linkedin.com/in/jashandeep

## TECHNICAL SKILLS

---

**Languages:** Python, C++, TypeScript, Rust, C, Go, JavaScript (ES6+), Java, Kotlin, SQL, Bash, HTML, CSS

**Frameworks/Libraries:** React, Node.js, Next.js, Redis, Postgres, AWS, MySQL, MongoDB, Git, Unix/Linux, Docker

## EXPERIENCE

---

### ProgramPro

Jan 2024 - Present

*Founder & Software Engineer*

*North York, ON*

- Designed and deployed four scalable single-page applications using React and Next.js, utilizing **server-side rendering** and **static site generation** to boost SEO and performance, achieving **30% faster load times**
- Built a library of **20+ reusable components** with TypeScript, using Bazel to optimize builds, **reducing runtime errors by 22%** and new feature development time by 13%
- Optimized bundle sizes using **Webpack** and reduced initial load time using **code-splitting**, **tree-shaking**, and **dynamic imports**, resulting in **18% faster load times** and improved application performance

### PetroWagon

Apr 2023 - Oct 2023

*Full Stack Developer - Contract*

*Remote*

- Collaborated with a cross-functional team to design authentication and authorization services using **OAuth 2.0** through NextAuth and JWT, enhancing security protocols and resulting in a **17% faster login**
- Engineered scalable backend solutions for course content management using **MongoDB**, yielding a **15% increase in overall system throughput**
- Led an independent programming project to optimize **10+ RESTful APIs** for handling user data, and implemented secure payment processing using **Stripe's** JavaScript library, leading to a **23% reduction in latency**

### SOCA

May 2022 - Feb 2023

*Web Developer*

*Waterloo, ON*

- Developed an interactive website using **React** and **Redux** to manage real-time stats for a cricket league in Ontario
- Reduced page load time by **25%** with server-side rendering and pre-fetching critical resources, ensuring faster FCP
- Enhanced UI scalability using **React.memo** hook for memoization, concurrent rendering, and **Babel** to transpile modern JavaScript for multi-browser compatibility, reducing re-renders and **lowering processing costs by 20%**

### Stark Softwares

May 2021 - Aug 2021

*Testing Engineer - Intern*

*Remote*

- Developed over **50 tests using Jest**, resolving critical UI/UX issues to maintain rigorous quality standards
- Implemented CI/CD pipelines with **GitHub Actions**, **CircleCI**, **Vercel** and **Docker** to automate testing, integration, and deployment processes, enhancing development efficiency

## PROJECTS

---

### Stock Screener 📄 | *Next.js, React, TypeScript, Tailwind CSS, Shadcn, Visx*

- Developed a scalable stock screener web application, integrating Yahoo-Finance2 API for real-time data
- Engineered a modular frontend with **TailwindCSS**, **Radix UI**, and **Shadcn**, optimizing performance using **WASM** for intensive tasks, Webpack for minification and code-splitting, and memoization to reduce re-renders

### TrackingDubs 📄 | *TypeScript, Nest.js, Prisma, Swagger and PostgreSQL*

- Developed a backend API with **Nest.js** and **Prisma** ensuring secure authentication with risk-control standards
- Built a scalable PostgreSQL database with Prisma, enabling efficient CRUD operations for user and bet tracking

### Crypto Alert 📄 | *Kotlin*

- Developed a cryptocurrency app for Android to create a mock portfolio and simulate real-life trading strategies
- Implemented **MVVM** architecture with **Android Room**, **Dagger2**, and **Retrofit** for efficient data management

## EDUCATION

---

### University of Waterloo

Waterloo, ON

*Bachelor of Computer Science & Mathematics - Statistics Minor*

*July 2022*

- Courses: Object Oriented Programming in C++, Data Structures, Approximation Algorithms, Applied Cryptography, Computer Networks, Distributed Systems, Databases, Forecasting