MAHESH DHINGRA

SOFTWARE ENGINEER

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SUMMARY

Skilled MERN Stack Developer & Software Engineer with 5 years of experience in designing, developing, and deploying scalable web applications. Proficient in MongoDB, Express.js, React.js, Bun.js, and Node.js, with deep expertise in TypeScript for building robust, maintainable codebases. Strong background in software engineering principles, system design, and API development, with a focus on performance optimization, security, and scalability. Experienced in cloud deployment (AWS, Vercel, DigitalOcean), CI/CD pipelines, microservices architecture, and state management (Redux, Zustand). Passionate about writing clean, efficient code and staying up to date with modern software development trends.

TECHNICAL SKILLS

Programming Languages: HTML, CSS, SASS, JavaScript, TypeScript, Rust, Python, C, C++, SQL, Bash
Tools & Platforms: Git, GitHub, Visual Studio Code, Docker, Vercel, DigitalOcean, AWS, Postman, Figma, Linux (Ubuntu, Arch), Webpack, Babel, pnpm
Runtimes & Frameworks: Bun.js, Node.js, Deno, Astro
Libraries & Technologies: React, Next.js, Three.js, SolidJS, TailwindCSS, shadcn/ui, Discord.js, Express, Redux, Zustand, Prisma, tRPC, Socket.io, Framer Motion, Playwright, Jest

PROFESSIONAL EXPERIENCE

Freelancing — Software Developer   **March 2020 - Present**
- Develops innovative software solutions that help businesses streamline their operations.
- Build applications that improve efficiency, scalability, and user experience.
- Assist companies in adopting modern technologies to stay competitive in the market.

PROJECTS

PyX – Custom Python Subset Interpreter   **Aug 2024 - Mar 2025**
Rust Compiler & Lexer: Converts Python source into tokens using a robust lexer, builds an AST, and translates it into a custom IR. Executes the IR with a modular VM, laying the groundwork for future JIT optimizations. Performance Focus: Includes built-in execution timing for rapid performance insights.

ADDITIONAL INFORMATION

- **Languages:** English, French, Hindi, Spanish, Germany.
- **Certifications:** Professional Design Engineer (PDE) License, Project Management Tech (PMT).
- **Awards/Activities:** Most Innovative Employer of the Year (2021), Overall Best Employee Division Two (2024), Onboarding Project Lead (2023)