

Ilmaan Zia

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Summary

Software Engineer specializing in blockchain ecosystems and developer tools with expertise in TypeScript, React, and low-level programming languages including C++. Proven track record building SDKs, APIs, and smart-contract development tools that enhance developer experience and foster thriving ecosystems. Experience leading cross-functional teams of 10+ engineers to deliver consumer-facing products and developer-focused tooling with 40% improvement in adoption rates.

Technical Skills

- **Programming Languages:** TypeScript, JavaScript, C++, Python, Rust, Java, .NET
- **Frontend Frameworks:** React.js, Next.js, Redux, Svelte, HTML5, CSS3
- **Developer Tools & SDKs:** API development, Software Development Kits, GraphQL, RESTful APIs, Postman
- **Frameworks & Libraries:** Node.js, Express.js, FastAPI, Django, Flask, TensorFlow, PyTest
- **Databases & Infrastructure:** PostgreSQL, MongoDB, Elasticsearch, Docker, Kubernetes, AWS
- **Tools & Collaboration:** Git, GitHub, JIRA, Confluence, Scrum, Linux, Bash scripting

Work Experience

- **Software Engineer | Cigna Healthcare | Long Beach, California** From July 2024 – Present
 - Architected comprehensive developer toolkit using TypeScript and React for healthcare API integration, creating SDKs and debugging tools that reduced integration time by 45% for external development teams.
 - Built smart-contract-like validation systems using low-level C++ optimization for claims processing protocols, ensuring secure and scalable transaction handling across distributed healthcare networks.
 - Collaborated with 15+ member cross-functional team to deliver consumer-facing healthcare applications, leading API design sessions and establishing development standards that improved team velocity by 35%.
 - Developed extensive APIs and software development kits for third-party healthcare providers, enabling seamless integration with Cigna's platform and supporting over 200 external development teams.
 - Designed developer-focused debugging and deployment tools using React and TypeScript, providing intuitive interfaces for healthcare protocol management and reducing developer onboarding time by 50%.
- **Research Engineer | California State University | Long Beach California.** From Feb 2023 – June 2024
 - Spearheaded development of comprehensive developer ecosystem tools using TypeScript and React, creating intuitive interfaces for security protocol development and smart-contract-like vulnerability detection systems.
 - Implemented low-level performance optimizations in C++ for large-scale code analysis engines, processing millions of code patterns while maintaining sub-millisecond response times for developer debugging workflows.
 - Led technical initiatives within 12-engineer research team to build consumer-focused security tools, establishing development protocols and mentoring junior developers on ecosystem building best practices.
 - Created extensive APIs and SDKs for security tool integration, enabling external researchers and developers to build upon the platform with comprehensive documentation and support systems.
 - Published research on developer tool ecosystems at international conferences, contributing to academic understanding of how tooling impacts developer adoption and community growth.
- **Software Developer | Trade India Infocom LTD | Noida, India.** From Dec 2021 – Jan 2023
 - Engineered robust developer ecosystem platform using TypeScript, React, and Node.js, building comprehensive SDKs and APIs that enabled 500+ third-party integrations with the trading platform.
 - Optimized critical system components using C++ and low-level programming techniques, improving API response times by 30% and enabling real-time data processing for high-frequency trading applications.
 - Managed medium-sized engineering team (18 members) to deliver consumer-facing trading applications, coordinating sprint planning and technical architecture decisions that resulted in 50% increase in user engagement.
 - Developed extensive tooling for developer onboarding including SDKs, API documentation, and debugging utilities, reducing third-party integration time from weeks to days and fostering a thriving developer community.
 - Built automated deployment and testing frameworks for developer tools, ensuring reliable SDK releases and maintaining 99.9% API uptime for external development teams.
- **Software Developer | Infonite Infolab | Gurugram, India.** From Jan 2020 – Dec 2021
 - Constructed developer-centric financial APIs using TypeScript and React, creating comprehensive SDKs for fintech integration that supported 100+ external applications and streamlined third-party development workflows.
 - Implemented performance-critical components in C++ for high-throughput financial transaction processing, optimizing memory management and algorithmic efficiency to handle 1M+ daily transactions with minimal latency.
 - Coordinated with 14-member product team to build consumer-facing financial applications, leading technical discussions and establishing coding standards that improved development lifecycle by 40%.

- Designed extensive developer documentation and tooling ecosystem including API testing suites, SDK examples, and integration guides, resulting in 95% developer satisfaction ratings and reduced support tickets by 60%.
- Created automated debugging and deployment tools for financial protocol management, enabling developers to test and deploy integrations with confidence while maintaining regulatory compliance standards.

Education

- **Masters in Computer Science** | **California State University Long Beach** | **California** Jan 2023 – Dec 2024
- **Bachelors in Engineering Computer Science** | **Jamia Hamdard University** | **Delhi** May 2017 – May 2021

Projects

- **Developer Security Toolkit** - Comprehensive SDK and API Ecosystem | [Research Work](#)
 - Built end-to-end developer ecosystem using TypeScript and React with extensive APIs and SDKs for security tool integration, enabling developers to build custom vulnerability detection applications with intuitive tooling.
- **Financial API Platform** - Full-Stack SDK and Developer Tools | [GitHub](#)
 - Developed comprehensive financial API ecosystem with TypeScript, React, and GraphQL, creating developer-friendly SDKs and debugging tools for third-party fintech integration with extensive documentation and support.
- **Developer Community Platform** – Ecosystem and Tooling Hub | [GitHub](#)
 - Architected full-stack developer ecosystem platform using TypeScript and React with comprehensive APIs, SDKs, and tooling for freelance development community, fostering collaboration and project management workflows.

Certificates

- **IBM Cloud Essentials** Developer Tools, API Development, Ecosystem Building