

Kuldeep Singh

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GitHub: <https://github.com/Ar5en1c> | Portfolio: <https://ar5en1c.github.io/react-portfolio/>

SKILLS

Programming Languages: Swift, JavaScript, TypeScript, Python, Java, SQL
Web Technologies & Database: React.js, Node.js, GraphQL, AWS (Lambda, API Gateway, DynamoDB), Firebase, MySQL
Tools & Practices: Git, Jira, Postman, SwiftLint, UIKit, SwiftUI, Combine, MVVM-C, CocoaPods, Alamofire, Jenkins, Docker, Figma

EXPERIENCE

Walmart Inc. (Apolis Inc. & Geo Tech Corp.) **Sunnyvale, CA**
iOS Developer *May 2024 - Present*

- **Deep Linking & Navigation:** Designed and implemented robust deep linking functionality using Swift and the Coordinator pattern, streamlining navigation to key app sections.
- **UI Development:** Developed high-performance UI components with Swift, UIKit, and custom frameworks (GlassUI, LivingDesign) while upholding an MVVM-C architecture.
- **Analytics Integration:** Leveraged the Combine framework to integrate real-time analytics for monitoring feature performance and driving data-driven improvements.
- **Quality & Collaboration:** Led cross-functional code reviews, unit testing initiatives, and technical debt reduction efforts, ensuring high code quality and adherence to accessibility standards.
- **Leveraged** Git for source control, CI/CD pipelines with Jenkins, Jira for project management, and Splunk/OpenObserve for logging and monitoring, ensuring efficient debugging and collaboration.

Eitacies Inc. **Chicago, IL**
Software Developer *Jun 2023 - Feb 2024*

- Architected and developed a **HIPAA-compliant** iOS healthcare application using **Swift**, **UIKit**, and **MVVM design pattern**
- Implemented **RESTful API** integration using **URLSession** and **async/await** for efficient data handling
- Implemented secure authentication system with **Keychain services** and **push notifications integration** for enhanced user engagement
- Led **code reviews** and established **SwiftLint rules** for the iOS team, improving **code quality** and **reducing technical debt** by **30%**

University of Illinois Chicago (UIC) **Chicago, IL**
Graduate Assistant *Aug 2022 - May 2023*

- Architected and developed **full-stack** web applications using **Django** and **React.js** to streamline administrative processes
- Improved security for departmental applications by integrating **Two-Factor Authentication (2FA)** with end-to-end encryption, reducing vulnerabilities and protecting sensitive data.
- Mentored junior developers and conducted **code reviews** to maintain high code quality standards

Pactiv Evergreen Inc. **Lake Forest, IL**
Data Science Intern *Jun 2022 - Aug 2022*

- Developed a **Tableau-driven** data governance dashboard with a sophisticated **MySQL** database to streamline software license management, leading to a **10%** cost savings.
- Collaborated in developing advanced predictive models in **Python** for strategic workforce optimization, slashing the need for staffing adjustments by **30%** through data-driven insights and forecasting trends
- Collaborated with business stakeholders to translate complex data insights into actionable recommendations

Humourbaba Pvt. Ltd. **Vellore, TN**
Software Developer *Dec 2019 - Jan 2021*

- Enhanced web application performance using the **MERN** stack, achieving a **50%** increase in speed and a **30%** uplift in user satisfaction measured through user reviews
- Executed a crucial backend transformation leveraging **Node.js** and **AWS** services, resulting in a streamlined architecture; increased data processing speed by **50%**, enabling real-time analytics for over **500** daily transactions
- Strengthened application security by implementing **JWT** and **Passport.js**, creating strong authentication and authorization protocols that significantly reduced unauthorized access and security risks

PERSONAL PROJECTS

Job Application Tracker Chrome Extension **Chicago, IL**

- Engineered a comprehensive overhaul of the Job Application Tracker **Chrome Extension** using **React.js v18** and **Webpack 5**, slashed load times by **50%**, and propelled user satisfaction scores by **40%**.
- Developed and deployed multiple secure **Node.js Lambda functions** for data processing with **DynamoDB**, enhancing scalability and performance by **100%**.
- Integrated **AWS API Gateway** to ensure reliable data transfer between the **Extension** and the serverless **backend architecture**, optimizing system reliability and user experience.

Cardiovascular Disease Visualization **Chicago, IL**

- Led a collaborative project with healthcare professionals to develop an **interactive dashboard** for visualizing **cardiovascular data**, aiding in more informed clinical decisions.
- Utilized advanced data analysis techniques with **Python (NumPy, pandas, seaborn)** to process and analyze vast datasets, uncovering critical health trends and insights that informed the dashboard design.
- Designed a user-centric, interactive **dashboard** employing **D3.js**, **JavaScript**, **HTML5**, and **CSS3**, making complex patient data accessible and actionable to healthcare providers.

EDUCATION

University of Illinois Chicago (UIC) **Chicago, IL**
Master of Science in Computer Science *Aug 2021 - May 2023*

- Relevant Coursework: Visual Data Science, Artificial Intelligence, Database Systems, Mobile App Development.

Vellore Institute of Technology (VIT) **Vellore, TN**
Bachelor of Technology in Computer Science *Jul 2017 – May 2021*