

# Bhupesh Chikara

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## EDUCATION

### Syracuse University

*Master of Science in Computer Science*

Syracuse, NY

Jan 2024 – Dec. 2025

## EXPERIENCE

### Deloitte | Senior Software Engineer

*Technologies: React, D3.js, Node.js, Three.js, Typescript, AWS*

Feb 2021 – Jan 2024

Bangalore, India

- Designed and implemented custom responsive fragments and dashboards for Deloitte Insights using React.js, Redux, Custom hooks, and Context API, resulting in a 35% increase in user interaction rates.
- Leveraged D3.js to enable real-time exploration of charts, graphs, and maps within dashboards, reducing decision-making time by 25%.
- Integrated Three.js for 3D data visualisations, enhancing overall user experience and data accuracy by 20%.

### ToTheNew Pvt. Ltd. | Software Engineer

*Technologies: Angular 4+, Node.js, MongoDB, Express*

Feb. 2020 – Mar. 2021

Noida, India

- Engineered front-end solutions, including a COVID-19 dashboard and e-commerce platforms, using Angular 4 and RxJS, which improved client satisfaction for PWC.
- Architected the TCH channel studying portal using Angular 4, REST API, and RxJS, enhancing the learning experience for users.
- Implemented RxJS for handling asynchronous tasks, reducing loading times by 50% across key application features; this enhancement improved overall customer satisfaction and increased retention rates among users by 15%.

### Smart Joules Pvt. Ltd. | Software Engineer Intern

*Technologies: Angular, D3.js, TypeScript, RxJS*

Sept. 2018 – Dec. 2019

Dehradun, India

- Created various applications, such as D3 dashboards, multi-select autocomplete, and D3 charts.
- Developed an open-source NPM module for multi-select autocomplete, fostering code reusability and promoting best practices, leading to a 40% increase in community contributions.
- Applied Angular and RxJS in constructing D3 dashboards, enhancing functionality and responsiveness.

## PROJECTS

### LaCarte ↗ | React, Redux, D3.js, Firebase

- Developed a React and Redux-powered restaurant app for seamless order placement via QR code scanning, leading to a 20% increase in order processing efficiency.
- Revamped backend infrastructure with Firebase Cloud Functions, automating image compression and reducing storage costs by 30% and improving app loading times by 2 seconds for users.
- Incorporated charts and graphs using D3.js in the restaurant dashboard, offering insights for efficient order management.

### Procode ↗ | Next.js, Zustand, Node.js, MongoDB, Firebase, WebSocket, Judge0, Openai

- Enhanced developer workflow by designing an AI-driven PWA with React, Node.js, and DeepSeek for coding assistance; reduced average debugging time by 2 hours per developer per week.
- Accelerated user learning through an AI-driven avatar SDK, delivering tailored support and immediate feedback; the initiative resulted in 95% positive user satisfaction ratings.
- Launched an interactive coding environment featuring Judge0 API, enabling real-time execution feedback and progress tracking; this initiative was the first time the team used an API to improve code.

### Automated Job Application Assistant ↗ | React, Python, MongoDB, AWS, Typescript

- Engineered a Python automation tool integrated with Selenium to populate job applications on 20+ ATS platforms, freeing up 10+ hours per week for candidates to focus on interview preparation.
- Integrated OpenAI's GPT model to analyse job descriptions and create tailored application documents, reducing the time spent per application from 45 minutes to under 5 minutes.
- Orchestrated the MongoDB implementation for tracking application progress, pinpointing system errors, and capturing user interactions, which led to findings to fix the three biggest causes of crashes.

## TECHNICAL SKILLS

**Skills:** React, Next.js, Angular, TypeScript, Node.js, GraphQL, Python, D3.js, WebSocket, WebRTC, Three.js, DynamoDB, Firebase Cloud Functions, AWS Lambda, AWS S3, Data Structures and Algorithms, System Design

**Tools:** Git, Firebase, GCP, AWS, Docker, SharePoint, Selenium automation, Capacitor