

# ARCHIT KIRAN KUMAR

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## EDUCATION

**Boston University | Boston, Massachusetts**  
Master of Science

2025 - 2027 (Expected)

Major: Computer Science

**Ramaiah Institute of Technology | Bangalore, India**  
Bachelor of Engineering

2021 - 2025

Major: Computer Science and Engineering

## SKILLS

**Programming & Development:** Python, Java, C, JavaScript, HTML, CSS, React.js, Next.js

**Courses:** Data Structures & Algorithms, Object-Oriented Programming, Design Patterns, Software Development Life Cycle, Agile Methodologies, Debugging, Testing

**Data, framework & tools:** PySpark, Pandas, NumPy, Matplotlib, Seaborn, MySQL, Git, GitHub, Jupyter Notebook, REST APIs, JSON, Data Collection & Extraction, Data Visualization,

**Other Skills:** UI/UX Design, Problem-Solving, Team Collaboration, Communication

## PROJECTS

- **Safeguarding Bharat's EV Charging Networks (OCPP Protocol Resilience):** Strengthened EV charging infrastructure security by analyzing vulnerabilities in OCPP and simulating real-world cyber threats, and won the Best Project Award.
- **Real-Time Traffic Data Analysis Using PySpark:** Designed a real-time traffic visualization tool with TomTom APIs + PySpark, analyzing large-scale live data for Bangalore; delivered dynamic route mapping, congestion analytics, and alternate routing to support data-driven traffic management.
- **Post-Quantum Communication Framework for IoT Devices:** Implemented a post-quantum framework with quantum-resistant cryptography, ensuring secure data transmission and safeguarding IoT networks from emerging quantum threats.
- **Blockchain-Based Voting System:** Created a tamper-proof voting application leveraging blockchain consensus to ensure transparency, auditability, and trust in electronic voting.
- **MERN-Based Applications (Car Rental, Railway Reservation):** Built full-stack platforms using React, Node.js, Express, and MongoDB, streamlining bookings, authentication, and customer workflows for scalable enterprise use.

## WORK EXPERIENCE

**MillicentTechnologies | Front-End Developer Intern | Bangalore, India**

March 2025 - July 2025

- Engineered and deployed 5+ responsive web applications using React/Next.js, boosting load speed by 30% and enhancing client engagement, which directly contributed to a 10% increase in client retention.
- Designed and implemented a reusable front-end framework adopted across 3+ internal teams, cutting delivery time by 20% and supporting \$50K+ in additional revenue by accelerating deployment of client projects.

**InternPe | Software Engineering Intern | Bangalore, India**

April 2024 - September 2024

- Developed and launched interactive Python applications (including a game frontend) that increased user engagement by 25%, driving a 5% rise in paid subscriptions and generating an estimated \$10K in revenue.
- Created and standardized reusable Python modules across 4+ projects, reducing setup/debugging time by 15% and improving throughput by 12%, enabling faster project delivery for multiple clients.