VARAD RANE

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OBJECTIVE

Aspiring software engineer with a passion for building scalable, efficient, and user-centric solutions, driven by a strong technical foundation and a commitment to continuous learning.

EDUCATION

Master of Computer Science, New Jersey Institute of Technology — Expected 2026
Relevant Coursework: Database Management Systems, Operating Systems, Cryptography and Security.

Bachelor of Electronics Engineering, Mumbai University — Aug 2018 - May 2022
CGPA: 9.32 / 10
Relevant Coursework: Image Processing, Database Management Systems, Robotics

SKILLS

Technical Skills	C#, Javascript, Python, SQL
Soft Skills	Problem Solving, Leadership, Collaboration, Attention to Detail

EXPERIENCE

Deputy Manager - IT Software — Jun 2023 - Aug 2024
Kotak Securities — *Mumbai, MH*

- Enhanced the Authentication and Access Control process for AD Authentication, **increasing request speed by 30%** and adding support for token-based sessions
- Deployed a custom Alert Management System using .NET and SQL, **reducing downtime and errors by 15%** through instant error alerts
- Created high-performance APIs using Typescript, ASP.NET and AWS Lambda functions, enabling business-critical operations with improved scalability and reduced latency
- Following Microsoft's suggestions, merged common functionality from 12 different applications into a single code library, **reducing network complexity by 20%**

Management Trainee — Jun 2023 - Aug 2024
Kotak Securities — *Mumbai, MH*

- Developed Full-stack applications with Angular and .NET, involving queue-based processing of requests, to facilitate data request queries from multiple SQL databases efficiently.
- Migrated WPF and Winforms applications written in .NET Framework to .NET 7.0 to stay compliant with company's security standards

Senior Developer — Jan 2017 - Jan 2019
Internship at VESIT — *Mumbai, MH*

- Designed and coded a website along with a Discord Chat Bot, to provide students their extracurricular certificates
- Used college emails to authenticate and verify users, and developed a website to **bulk upload digitally signed and verified certificates**

PUBLICATIONS

Automated Crack Severity Level Detection and Classification for Surface Cracks Using Deep Convolutional Neural Networks — Aug 2022
10.1007/978-981-19-2980-9_21

PROJECTS

Stream Chat Organizer github.com

Designed a simple chrome extension to add visual elements to an ongoing live chat for better readability and improved interaction. Features include marking chats as read, pinning chats as viewer, and quote previous messages. All this runs in the client browser so no need for a separate back-end.

IoT Home Lab github.com

Integrated multiple IoT devices like cameras, smart bulbs, etc. in an open-source application Home-Assistant, that runs securely in my home, for fully local home automation. Took a security-first approach by setting up my own home's network architecture with proper VLANs, access control and IP whitelisting rules, to ensure entire setup is running without sharing any data to third-party services.

EXTRA-CURRICULAR ACTIVITIES

- Conducted an interactive lecture with on Level 2 Robotics followed by an hands-on exercise for students to foster interest in electronics and robotics.

- Facilitated a structured study group for a cohort of students in their final academic term.

LEADERSHIP

- Organized PRAXIS, our college's yearly tech event, as Lead Manager, for three years.

- Served as Class Representative to a cohort of 70 students for three years during my undergraduate studies.