

# 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 Science (M.S.) in Computer Science**, New Jersey Institute of Technology Jan 2025 - Present  
Relevant Coursework: Database Management Systems, Machine Learning.

**Bachelor of Engineering (B.E.) in Electronics Engineering**, Mumbai University Aug 2018 - May 2022  
**CGPA: 9.32** Relevant Coursework: Image Processing, Database Management Systems, Robotics

## EXPERIENCE

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

- **Streamlined AD authentication** by introducing token-based sessions, boosting request throughput **30%** and tightening access control.
- **Built high performance, serverless APIs** with ASP.NETCore, TypeScript, and AWS Lambda, enabling on-demand scaling and cutting latency for business-critical workflows by **120 ms** on average.
- **Improved system reliability and maintainability** by launching a .NET/SQL alert-management platform, reducing downtime by **15%**, and unifying shared logic from 12 apps into one library, reducing network complexity by **20%**.

**Management Trainee - IT Software**, Kotak Securities, Mumbai, MH Jun 2022 - Jun 2023

- **Developed full-stack applications with Angular and .NET**, using queue-based processing to efficiently handle data requests from multiple SQL databases, improving data retrieval speed.
- **Migrated WPF and Winforms applications** written in .NET Framework to .NET 7.0 to stay compliant with company's security standards.

**Senior Developer**, VESIT, Mumbai, MH Jan 2021 - Aug 2021

- **Designed and developed** a website and Discord Chat Bot to provide students with their extracurricular certificates, enhancing accessibility and user engagement.
- **Utilized college emails to authenticate** and verify users, and developed a website for bulk uploading digitally signed and verified certificates, streamlining the certificate distribution process.

## SKILLS

<b>Programming Languages</b>	C#, Go, Python, JavaScript/TypeScript, C, Bash, SQL
<b>Frameworks &amp; Libraries</b>	ASP.NETCore, Node.js, Angular, SvelteKit, TensorFlow, OpenCV, Pandas, Tailwind CSS, SASS/SCSS
<b>Cloud/DevOps</b>	AWS, Azure, Docker, Kubernetes, Nginx, GitHub Actions
<b>Databases</b>	PostgreSQL, Microsoft SQL Server, MySQL, MongoDB, Firebase
<b>Tools</b>	Git, Postman, Figma, Puppeteer, FFmpeg, Blender, MATLAB
<b>Languages</b>	English, Hindi, Marathi

## 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](https://doi.org/10.1007/978-981-19-2980-9_21)