

# AMAN

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## Education

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### DCRUST

Bachelor of Technology in Computer Science – 8.24CGPA

Nov. 2022 – July 2026

Murthal, Haryana

### Tika Ram Model School

Intermediate 96%

March 2019 – March 2021

Sonapat, Haryana

## Relevant Coursework

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- Data Structures
- Web And Internet
- Operating Systems
- Software Engineering
- OOPs
- Database Management
- Computer Architecture
- Computer Networks

## Experience

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### Indraprastha Gas Limited

Software Engineer Intern

July 2025 – August 2025

Delhi

- Developed a AMC portal, admin panel, and website using **MERN stack**, boosting efficiency by **25%**.
- Implemented **Context APIs** for boosting app performance by **30%** and developed **20+ RESTful APIs** with **Express** for efficient data communication
- Managed and validated data entries in **MongoDB**, maintaining **100% accuracy** using **Mongoose** schemas.
- Worked on Self billing portal using **roboflow**, **yoloV8**, **tesseract**, for **OCR of Meter reading**

## Projects

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**Brain Image Segmentation** | *PyTorch, MONAI U-Net, OpenCV, nibabel, Statsmodels, Seaborn*

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- **Developed an AI-driven 3D medical image segmentation model** using MONAI's Attention U-Net, accurately identifying gray matter, white matter, ventricles, and hippocampus, along with abnormalities like tumors, lesions, and atrophy in MRI scans.
- Enhanced segmentation accuracy through advanced preprocessing, including **normalization, resizing, and data augmentation** (random flipping, rotations, zoom, Gaussian noise), ensuring robust model generalization.
- Validated findings with statistical tests (**ANOVA, Kruskal-Wallis, Tukey's HSD**) to analyze cluster differences, revealing significant variations in brain region volumes, intensity and PCA components, aiding in anomaly detection

**Chat App** | *ReactJs, SQL*

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- **Optimized database queries using Prisma**, reducing server response times by **40%**.
- Integrated **Razorpay** for secure transactions, processing payments for **100+ users** in the first month.
- **Achieved 99.95% uptime** post-deployment on **Cloudflare Workers**.
- Engineered an Admin Panel with **Hono** and **React** that reduced task processing time by **100%** efficiency

**Panel Designer** | *React, React Native, Expo, React DND, Express, Node, Mongoose, MongoDB, Firebase etc.*

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- Designed and implemented **15+ dynamic user interfaces** using **React** and **React DnD**, enhancing user interactivity and reducing task completion time by **35%**.
- Developed **35+ RESTful APIs** with **Express** and **Node.js**
- Handled **200+** users on the server by deploying on **AWS**, and using state management tools like **Redux**
- Factory Management app using **Expo** and **React Native**, streamlined daily factory tasks, reducing manual logging by over **70%** and improving task tracking efficiency by **55%** through automation features.

## Technical Skills

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**Languages:** C, C++, Python, Javascript, Typescript

**Frontend Technologies:** HTML/CSS, TailwindCSS, React.js, React Native, Redux, Recoil, Next.js, Expo

**Backend Technologies:** Node.js, Express, Hono, Mongoose, Prisma, MongoDB,

**ML Libraries and Frameworks:** Scikit-Learn, Matplotlib, Tensorflow, Keras, Pandas, Numpy, Seaborn

**Tools:** Docker, Cloudflare, AWS, Git/GitHub, IntelliJ IDEA, VSCode

## Leadership / Extracurricular

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- Recommended By 4 AFSB Varanasi **For NDA 146**,
- Successfully Completed **10+** Freelance Projects
- Cleared **Gate 2025 with a score of 45**