

# JAYANT MALIK

## SOFTWARE ENGINEER

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## ABOUT ME

I'm Software Engineer and Tech Savvy from India, working in web development, android development, core development and DevOps. I enjoy turning complex problems into simple, beautiful and intuitive code.

I really enjoy coding and hunting down bugs. I drive company missions through teamwork, R&D, and innovation. Furthermore, I use collaborative experience sharing to make the company stronger and move forward. Thinking out of the box is a magic recipe that I use to make systems stronger and optimized.

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## WORK EXPERIENCE

### SOFTWARE ENGINEER & PROJECT EXECUTIVE OFFICER

MAR 2024 – PRESENT

*IIT - Indian Institute of Technology / KANPUR*

- Notable Projects & Contributions:
  - **C4I Military Automated System:**
    - Designed and developed a C4I system for Indian forces to automate target detection and destruction.
    - Engineered desktop applications and integrated system-level components including radar and specialized cameras.
    - Implemented parallel computation for near-zero millisecond latency.
  - **AI-based Human Bone Data Prediction:**
    - Developed and trained models for predicting human bone data.
    - Created a Python Flask app for both frontend and backend functionalities.
  - **CPGRAMS - Govt. Grievance Portal:**
    - Developed frontend portals enabling vector-based search for citizen complaints.
    - Integrated APIs from CPGRAMS ([pgportal.gov.in](http://pgportal.gov.in)) to manage complaint-related data.
  - **Fraud Detection for Exam Centers:**
    - Built backend APIs for real-time reports, authentication, and face data uploads.
    - Developed a frontend dashboard for admin management and an Android application for verification agents at exam centers.
  - **UP Health Stack:**
    - Contributed to development plans and collaborated with professors and government officials for Phase 1 development.
    - Developed doctor-patient appointment systems and integrated with government portal APIs.
- Additionally, led the development of multiple internal tools and libraries, guiding engineers under my supervision.

### DEVELOP BHARAT

MAR 2023 – MAR 2024

*FOUNDER / NON-PROFIT / REMOTE*

- **Goal:** Develop Bharat mission is to build open source services and tools that are useful to communities and humanity.
- **Team:** Currently we are a team of Just 5 Great, Smiling and nature loving humans.
- Some contributions are:
  - CrunchHttp: Making Trillions of HTTP Requests per second for data scraping and processing.
  - Social Election: Making Indian elections accessible to all and Helping Booth workers with their tasks.
  - Social Bharat: We have plans to build it, But it is still in the planning phase.(Surprise in Future!)
  - And many More on the way...

- **Full-Stack Development:** Proficient in front-end (React, Next.js) and back-end (Node.js, Python, Kotlin, TypeScript, Prisma), focusing on responsive design, state management, and high-performance applications.
- **DBMS:** Skilled with PostgreSQL, MongoDB, DynamoDB, MySQL, SQLite.
- Experience with:
  - Backend: Flask, Node.JS, Python and Prisma
  - Frontend: React, Next.JS
  - Databases: PostgreSQL, MongoDB, DynamoDB, MySQL, SQLite
  - Queue: RabbitMQ

**TECHNICAL NODEJS CONSULTANT**

SEP 2022 – FEB 2023

*ANCIAR TECHNOLOGIES PVT LTD / BANGALORE*

- Design and implement enterprise-wide infrastructure and applications on AWS.
- Guide and mentor the software development team to ensure robust and quality software.
- Experience with:
  - Backend: NestJS and Prisma
  - Databases: MongoDB, Redis
  - Queue: BullMQ

**HEAD BACKEND ENGINEER**

AUG 2021 – AUG 2022

*EATOES / HYDERABAD*

- Configure networks, servers, databases, and software.
- Design and implement enterprise-wide infrastructure and applications.
- Meet with business leaders to discuss IT needs and review requirements and solutions.
- Experience with:
  - Python: Flask and Django frameworks
  - TypeScript & JavaScript: Node.js and Express frameworks
  - Databases: MySQL, MongoDB, Redis, PostgreSQL
  - Frontend: ReactJS, NextJS

**INTERNSHIP - FULL STACK WEB DEVELOPER**

JUN 2021 – AUG 2021

*IIT - Indian Institute of Technology / Ropar*

- Design and enhance front-end layouts for swift loading times.
  - Follow established schedules and address any issues that arise.
  - Experience with:
    - PHP: Website and RESTful API development
    - HTML/CSS: Website UI and styling
    - JavaScript: Managing user-server interactions via HTTP requests
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## MY TOOLS & LANGUAGE STACK

- **Programming Languages:** JavaScript, TypeScript, Kotlin, Dart, Rust, C/C++
  - **Data Science:** Python, Pandas, Numpy, Matplotlib, Seaborn, Tableau, Kibana
  - **Backend Framework:** NodeJS, ExpressJS, FastifyJS, NestJS, AdonisJS
  - **Serverless:** AWS Lambda, Cloudflare Workers, Vercel Edge Functions
  - **Storage:** AWS S3, Google Cloud Storage, Firebase Storage
  - **Database Engine:** Redis, MongoDB, DocumentDB, PostgreSQL, MySQL, SQLITE
  - **ORM:** Prisma, Mongoose, TypeORM, SQLAlchemy, KnexJs
  - **DevOps & Management:** Docker, Kubernetes, Slack, JIRA, Miro
  - **Frontend:** ReactJS, SolidJS, NextJS, HTML + CSS + JS
  - **Android:** Jetpack Compose, Kotlin, React Native, Kotlin Multi Platform
  - **Cloud Providers:** AWS, Digital Ocean, Google Cloud
  - **CSS Frameworks:** TailwindCSS, Bootstrap CSS, Bulma CSS
  - **Automation:** UiPath, Puppeteer, Web Scraping, API Scraping
  - **Desktop:** C#, WPF(Windows Presentation Forms), QT, C++, Rust, UWP(Universal Windows Platform)
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## EDUCATION

### VAISH COLLEGE OF ENGINEERING - MDU ROHTAK

AUG 2018 – JUN 2022

*Bachelor of Technology in Computer Science*

ROHTAK, HARYANA

- A learning journey that will never be forgotten, taught us skills to make computers work hard for us and made some good friends to spend time with while computers calculate the value of PI. And we really worked hard to wrap our head around data structures.

### WEB DEVELOPMENT WITH JS & PYTHON

JUL 2019 – OCT 2019

CS50 - HARVARDX

REMOTE, USA

- Taught by David J. Milan and Brian Yu in a CS50 Course

### INTRODUCTION TO COMPUTER SCIENCE

AUG 2018 – NOV 2018

CS50 - HARVARDX

REMOTE, USA

- Taught by David J. Milan in a CS50 Course
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## ADDITIONAL DETAILS

- 13+ Certifications from HackerRank, Udemy, and UiPath
- Please visit my linkedin profile for a list of certifications along with links to respective certificates.
- **Linkedin:** [www.linkedin.com/in/devjayantmalik/](https://www.linkedin.com/in/devjayantmalik/)
- **Stackoverflow (1500+ Rank):** [stackoverflow.com/users/13525989/jayant-malik](https://stackoverflow.com/users/13525989/jayant-malik)
- **Website:** [devjayantmalik.vercel.app/](https://devjayantmalik.vercel.app/)
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