Akshat Malviya

Kumamoto city, Kumamoto, Japan
+81 90 8382 2822
contact@akshatmalviya.com | akshatmalviya.com | linkedin.com/in/akshat-malviya | github.com/akshat157

EDUCATION

INDIAN INSTITUTE OF TECHNOLOGY MANDI

Bachelor of Technology
Electrical Engineering

August 2017 - June 2021
CGPA : 7.58/10.00

SKILLS

PROGRAMMING
C • C++ • C# • Python
Bash • Lua • Go • Rust

WEB, MOBILE & BACKEND
TypeScript • HTML • CSS
TailwindCSS • shadcn/ui
ReactJS • NextJS • VueJS
REST • gRPC • GraphQL

CLOUD, DATABASES & SYSTEMS
Azure • AI Foundry • AWS
Firebase • Vercel
MySQL • MongoDB • Redis

TOOLS & PLATFORMS
Linux • Git • Docker
GitHub Actions • Figma
Blender • Unity • NeoVim

LANGUAGES
Hindi (Native)
English (Native/Bilingual)
Japanese (Basic)

SOFT SKILLS
Creativity • Communication
Leadership • Teamwork
Adaptability • Enthusiasm

ACHIEVEMENTS

- Head, Web Development
  AstraX '20, IIT Mandi
- Coordinator, Robotronics Club
  Robotics Club, IIT Mandi
- Core Member, KamandPrompt
  Programming Club, IIT Mandi
- Core Member, Percussionist
  Music Club, IIT Mandi
- Winner, Website Design Event
  STAC, IIT Mandi
- 2nd place, Capture The Stone
  Utkarsh '19, IIT Mandi
- 3rd place, TopCoder Hackathon
  Programming Club, IIT Mandi
- Winner, District Level Music
  Competition Mandla, India

EXPERIENCE

MICHIRU CO. LTD. | Software Engineer (Technical Lead)
Kumamoto, Japan | August 2021 - Present

- Led $0 \rightarrow 1$ development of the company's next-gen business automation platform, focusing on backend & infrastructure with additional contributions to frontend & product design.
- Architected & developed a **Generative AI** module for Agentic automation generation using **Azure, Azure Functions** and **AI Foundry,** reducing automation creation time by ~40% during early-stage testing.
- Established a **CI/CD** pipeline using **GitHub Actions,** automating ~70% of build & test workflows and enabling reproducible desktop release artifacts using **InnoSetup** scripts.
- Managed the end-to-end migration of a legacy hardware-control **C++** application to **C#.** Led a 2-engineer team to modernize the UI & improve code-base maintainability.
- Led a 2-engineer team to develop a **WinUI 3** app for CSV/TSV data transformation, replacing manual spreadsheet-based workflows & standardizing client data processing.
- Developed the foundation for a template-based PDF generation web-app, *TemplaDocs* , enabling dynamic generation from structured inputs, resulting in a ~50% improvement in invoice PDF generation times during internal testing.
- Implemented **Laravel REST API** endpoints and corresponding **VueJS/Vuetify** frontend integrations for new features in a **WebView2** -based inventory management system.
- Developed **Python tools** to automate internal workflows data entry and flag record discrepancies, improving accuracy and reducing verification times by ~33%.

FURRBLE TECH. PVT. LTD. | Founding Software Engineer Intern
Bangalore, India | August 2020 - May, 2021

- Developed *furrble.com* & *blog.furrble.com* with **GatsbyJS** & deployed to **Netlify** .
- Developed the Admin Dashboard using **ReactJS** and Carbon Design System.
- Implemented **OAuth** login in Furrble's mobile app with **Flutter** & **Firebase** .
- Developed the OTP microservice in the **Go** Backend using **Redis** and *2factor.in* SMS API.

TOPLINE CO. LTD. | Software Engineer Intern
Saitama, Japan | June 2020 - July 2020

- Built and deployed a real-time call transcription and sentiment analysis platform (**Flask** , **Google STT**) processing 100+ calls daily and reducing feedback turnaround time by 33%.
- Led production deployment on Apache HTTP Server (CentOS 7) using Python WSGI, managing full-stack integration and system reliability.

PROJECTS

NAVIGATION MODULE FOR AUTONOMOUS CLEANING ROBOTS
Major Technical Project | Dr. Jinesh C. Machchhar | IIT Mandi

- Developed, simulated and tested a **dead-reckoning** based efficient navigation module for autonomous cleaning robots, in the **Gazebo** simulation software.
- Developed the **C++ plugins** for mechanical sensors, actuators, the simulation algorithms using the **Gazebo API** , and the 3D models in **Blender** as **Simulation Description Format** .

FACIAL EXPRESSION RECOGNIZER | Digital Image Processing | IIT Mandi

- Created a 3-step ML model for human Face Detection, Feature Extraction & Expression Classification for expression classification, with a ~75% accuracy.
- Implemented the Viola-Jones algorithm for face detection and facial feature extraction and a **Naive-Bayes' classifier** for expression recognition.
- Developed the model in Python using **NumPy, OpenCV & Scikit-learn** and trained it on the JAFFE female facial expressions database.