

Karthik Pohane

Bengaluru — India

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PROFILE SUMMARY

Backend Engineer with 1+ year of experience building scalable, cloud-native applications using **Python, FastAPI, Node.js, PostgreSQL, and AWS serverless technologies**, specializing in API development, automation, and infrastructure optimization. Proven track record in architecting **microservices and notification systems**, deploying **Docker-containerized applications**, and leveraging **AWS (Lambda, S3, CloudFront, DynamoDB)** to reduce costs while maintaining max uptime. Adept at automating workflows with Python scripts and managing **CI/CD pipelines via GitHub**.

SKILLS

Programming & Scripting Languages : Proficient in **Python**, Java, C/C++, JavaScript, TypeScript
Frontend & Backend: React.js, HTML, CSS, Next.js, MUI, Formik, Redux, Node.js, RESTful APIs, GraphQL
Databases: Postgresql, SQL (MySQL), MongoDB
Cloud Platforms: AWS (S3, EC2, Beanstalk), GCP, Firebase **DevOps Tools**: Docker, Git, JIRA, Postman

EXPERIENCE

Product Engineer (Backend) June 2025 - Present
Sharpsell.ai Bengaluru, IN

- Architected and deployed scalable serverless APIs using **AWS Lambda and FastAPI**, handling 50K+ requests daily with 99.9% uptime and reducing infrastructure costs by 30%.
- Built **Nudge**, a custom notification system using **Firebase SDK** to replace Moengage, processing **100K+ notifications daily** and reducing third-party dependency costs by \$400/month.
- Automated critical operational workflows by developing **15+ Python scripts**, reducing manual task execution time by 20 hours/week and minimizing human error by 40%.
- Optimized application infrastructure using **Docker, AWS CloudFront, S3, and DynamoDB**, improving deployment speed by 35% and reducing server response time by 25%.
- Managed end-to-end deployment pipeline with **GitHub CI/CD, PostgreSQL**, and successfully upgraded 10+ legacy applications to newer versions with zero-downtime deployments.

Software Engineer Aug 2024 - April 2025
Sellermate.ai Bengaluru, IN

- Developing and maintaining scalable web applications using **React.js, TypeScript, Redux, MUI, and Formik**, enhancing user experience and reducing page load times.
- Designing and managing backend services with **Node.js, Express.js, and MongoDB**, creating and optimizing RESTful API endpoints to improve response times by 10-15%.
- Deploying and managing cloud-based serverless solutions using AWS services, including **Lambda, S3, and EC2**, and containerizing applications with **Docker** to improve deployment efficiency by 20-25%.

Product Support Engineer Jan 2024 – June 2024
Meltwater Internship, Bengaluru, IN

- Resolved 150+ customer support tickets weekly using **JIRA**, improving resolution time by 20-25%, and led an **API-based content tracking project** hosted on **AWS Beanstalk Forify** to track content integrity using Meltwater's API, integrated SSO login with **Google Cloud**.

PROJECTS

ONEpurity | *Python, Deep Learning, CNNs, TensorFlow* | [Github Repository](#)

- Leveraged deep learning with **TensorFlow and CNNs (SSD MobileNet V2)** to develop a real-time pollution detection system, achieving 90% accuracy in pollutant identification.

CastClimate | *HTML, CSS, MySQL, JavaScript, PHP, XAMP* | [Github Repository](#)

- Built an e-commerce platform with **PHP, Microsoft SQL, and JavaScript**, enabling farmers to sell directly and cut middleman costs by 15%. Implemented a **Crop Suggestion System** for region-specific recommendations.

EDUCATION

Christ University

Master in Computer Application(MCA)

Passed with 75.37%

Bangalore, IN

July 2022 – June 2024

ACHIEVEMENTS

- Awarded Second Prize at the IEEE Conference for developing an ML-based video game to assess mental health (C++, Unreal Engine 5) – [View](#)
- Runner-up at Hackathon 31, Meltwater - **Truncdino**.
- 200+ **leetcode** solutions.