

ABHISHEK MURTHY

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EDUCATION

Duke University

August 2023 - December 2024

Master's, Artificial Intelligence

GPA: 3.67

- Relevant coursework: Modeling Process & Algorithms, Deep Learning Applications, Operationalizing AI, LLMs
- Teaching Assistant: MEng AI Cloud Ambassador, Assisting peers with deploying their applications to cloud platforms such as AWS, GCP, Azure and Duke Compute Cluster (2023)
- Won 1st place in HackDuke, a 36-hour intercollegiate hackathon organized by MLH (2023)

Visvesvaraya Technological University

August 2016 - August 2020

Bachelor's, Computer Science

GPA: 3.47

- Data structures & Algorithms, Machine Learning, Software Engineering, Programming in Python, Network Security
- Appointed as the Developer Student Club Lead by Google and represented the Bangalore community (2017).
- Won numerous local, national and international hackathons with the most prestigious ones being Smart India Hackathon (2022), Smart India Hackathon (2018) followed by the Singapore-India Hackathon (2018).
- Published a research paper titled "Demand Drivers For Commodities" in the International Journal of Creative Research

PROFESSIONAL EXPERIENCE

Ticketdude

Bengaluru, Karnataka, India

Co-founder / Software Engineer

November 2022 - Present

- Strategically engineered and managed DNS configurations for diverse application environments, enhancing mailers and webhook efficiency. Spearheaded the architecture and deployment of scalable services on DigitalOcean, which improved system resilience and load handling, resulting in a 40% increase in deployment efficiency and a measurable enhancement in runtime memory optimization.
- Developed a cross-platform mobile app using Flutter and a web application using React, emphasizing Material Design 3 and robust state management techniques
- Implemented automated CI/CD pipelines for efficient deployment of backend, web, and mobile applications
- Integrated a payment gateway, set up notification services, and established reliable job queues and alert systems
- Technology Used – Python, Django, Pandas, Redis, Celery, MySQL, React, Flutter, Dart, DigitalOcean, fastlane etc

BlinkIt (now Zomato)

Bengaluru, Karnataka, India

Software Development Engineer 2

May 2021 - October 2022

- Architected and launched an Automated Replenishment System (ARS) for rapid 10-minute grocery delivery, orchestrating microservices to efficiently manage over 300,000 orders daily, significantly enhancing system performance using Kafka
- Boosted backend and application performance by implementing OWASP security practices and optimizing system architecture, resulting in a 30% increase in system uptime and a 20% reduction in security issues reported.
- Developed dashboards using React and TypeScript for report visualization and configuration management
- Implemented Grafana for system monitoring and Opsgenie for alerts, managed Docker images on AWS EKS
- Publicly featured in an article by BlinkIt (Zomato) on my journey and the impact I've made during my time
- Contributed to the core open source ERPNext library used by the likes of Zerodha and so on
- Technology Used – Python, Go, Django, Pandas, Redis, Kafka, Celery, SQL, Docker, Kubernetes, React, Typescript

TVAST

Bengaluru, Karnataka, India

Software Engineer

February 2020 - May 2021

- Developed the backends for several apps, instituting CI/CD pipelines via GitHub Actions that enhanced deployment frequency by 50% and reduced code integration issues by 35%.
- Implemented GraphQL resolvers, integrated payment gateways, and designed job queues and message brokers for efficient inter-service communication
- Developed speech recognition and language internationalization features using DialogFlow and Azure services
- Optimized MongoDB queries by crafting and implementing geospatial indexes, which led to a 40% improvement in database search efficiency and response times
- Designed frontends using React with Material UI and Flutter for mobile applications, worked with various databases and server technologies
- Technology Used – MERN, AWS, Nginx, Redis, RabbitMQ, NestJs, MongoDB, Django, Flutter, MySQL, Docker

SKILLS

Skills: AWS, Celery, Apache Kafka, Data Structures & Algorithms, Django, Docker, Flutter, GraphQL, JavaScript, HTML/CSS, Airflow, Microsoft Azure, MongoDB, MySQL, NumPy, Pandas, Postgres, Pytorch, RabbitMQ, React.js, React Native, Redis, SQL, Tensorflow, Kubernetes, Python, Nginx, TypeScript, Digital Ocean, Firebase, Dart, OpenCV, Go, Java, Node.js, Postman, NoSQL, Excel/Numbers/Sheets, Mixpanel, Git, Android Development