

JAYAVARDHAN KARAMPUDI

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EDUCATION

Master of Science in Computer Science, Arizona State University (**GPA 4.0/4.0**) *2021 - 2023*
Coursework: Data Structures and Algorithms, Cloud Computing, Database Systems, Artificial Intelligence, NLP
Bachelor of Technology in Computer Science, Indian Institute of Information Technology (IIIT) *2014 - 2018*

SKILLS

Programming	Python, Ruby, Java, Rust JavaScript, TypeScript, C#, C/C++, Golang, PHP, HTML, CSS
Web Development	Django, Spring, React, Redux, Node.js, Express, Angular, NextJS, Rails, Flask, GraphQL, Prisma
Backend	Amazon Web Services (AWS), MongoDB, MySQL, PostgreSQL, Elasticsearch, Docker, Vercel, Kafka
Technologies	MEAN Stack, CI/CD, Microservice Architecture, REST APIs, Git, Agile, SDLC, Salesforce

EXPERIENCE

Arizona State University

Software Development Engineer

Dec 2021 - Present

- Designed and developed a visualization platform using VueJS and integrated with API services using Flask, adhering to best practices for code quality and efficiency. Improved the convergence science laboratory's research capabilities and facilitated data exploration, resulting in a 20% increase in research efficiency.
- Engineered a Docker network to streamline the production environment, resulting in a 30% decrease in deployment time. Resolved bugs and improved the end-to-end pipeline, increasing data processing efficiency by 20%.

Reverie Technologies

Senior Software Development Engineer

May 2019 - July 2021

- Orchestrated deployment to Azure cloud using Azure Functions and microservices, integrating CI/CD pipeline to facilitate rapid delivery across 50 cross-functional teams, resulting in improving efficiency by 70%.
- Using Golang, spearheaded development of a REST API backend for a ReactJS frontend, with filter and sorting features. Employed advanced API caching techniques to reduce main bundle size and boost loading times by an impressive 44%, dramatically enhancing the user experience.
- Built a Chrome Extension (Javascript) similar to Google Translate to translate websites into a target language in real-time using a MongoDB database with a Redis caching layer.

Truebil

Software Engineer

May 2018 - May 2019

- Optimized the backend and created new APIs in Django (MySQL, Redis, Python) from 180ms to an impressive 51ms, driving an incredible 80% increase in revenue-to-marketing spend ([Published case study](#)).
- Improved auction-app API with Redis caching in Spring Boot Framerwork, increased Req/S by 4X, and reduced EC2 usage by 57%, enhancing application scalability, availability, and responsiveness. Additionally implemented Firebase Notifications and Firebase realtime database to be used across services.
- Published the Truebil PWA built with ReactJS, Redux, NodeJS, MySQL, HTML5, CSS, having user-friendly filters, FOMO & UTM integration, and location-based data rendering, boosting user conversion by 36%

PROJECTS

Homestays Online Marketplace. Built a web platform with search, authentication, and booking management features. It achieved a 25% performance increase, with 1.5-second response time and 99.9% uptime under load testing with 1000 concurrent users, thus improved my skills in full-stack web development, database management. (Ruby on Rails, SCSS, PostgreSQL, Vercel)

WebScraper API. Developed a web scraping API utilizing a real-time browser to extract data from HTML and JavaScript with an accuracy rate exceeding 95% and an average response time of less than 500ms. Generated more than \$50,000 in revenue via subscription-based access. Demonstrated expertise in web scraping, API development, revenue generation, and technical product development. (Scrapyd, Puppeteer, Flask, and Cheerio)

Online C2C Marketplace. Created a online trading platform with user authentication, search functionality, and payment processing, resulting in a 30% increase in app downloads and a 25% increase in user engagement. Developed skills in UI/UX design, project management, and AWS deployment for optimized user experiences. (React Native, MongoDB, NodeJS, Redux, TypeScript)

AWS Image Recognition App. Built an elastic face detection web application using Pi with a camera module and logic on AWS Lambda. Implemented scale in and out based on the demand and cost, retrieving the output for 200 images in 120 seconds. (Java, Spring Boot, AWS, EC2, SQS, S3, Lambda)