

Kaushik Sundar

Curriculum vitae

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EDUCATION

2013 **Computer Science & Engineering**
B.TECH | 8.07/10 CGPA
Pondicherry University, India

WORK EXPERIENCE

DECEMBER 2021 – PRESENT

Regere.AI (Axcend Automation), Chennai

Chief Architect

Responsibilities: Designed and orchestrated a low-code platform tailored for Discrete Manufacturing, ensuring seamless automation and maintenance of infrastructure through code, achieving 100% automation. Emphasized adherence to compliance and security standards by implementing best practices. Established an observability stack leveraging AWS and GCP cloud providers, along with Terraform, Hasicorp Vault, Docker, Kubernetes, Helm, and the Grafana ecosystem including Grafana Agent, Tempo, and Loki. Utilized NodeJS, Python, AI, and machine integration for enhanced functionality. Orchestrated on-call support with Mimir and integrated Ignition, shell scripting, and CI/CD pipelines via GitHub Actions for streamlined development workflows.

OCTOBER 2020 – DECEMBER 2021

XSEED Education, Chennai

Platform Optimisation Manager

Responsibilities: Continuously enhancing application performance while serving as Scrum Master, driving code and test framework improvements to uphold product quality through peer code reviews. Additionally, responsible for infrastructure maintenance and deployment of monitoring tools such as StackDriver and New Relic. Proficient in NodeJS, Vue, Flutter, Jest, Playwright, Postman, Kubernetes, Terraform, and JIRA.

DECEMBER 2018 – OCTOBER 2020

XSEED Education, Chennai

Senior Product Executive

As a full-stack JavaScript developer, I spearheaded the transition of products to a microservices architecture, taking charge of infrastructure management and implementing cost-effective

scaling solutions. Proficient in NodeJS, Vue, Flutter, Kubernetes, and Terraform, I ensured smooth operations and scalability of the system.

SEPTEMBER 2016 – DECEMBER 2018

Report Bee, Chennai

Senior Product Hacker

As an end-to-end software developer specializing in the education sector, I excel in product design, technology initiatives, and development automation. Notably, I played a pivotal role as one of the lead architects in developing the Reporting Engine, a fundamental software component of the company's product suite. Additionally, I actively contribute to the company's pet projects leveraging image processing with OpenCV and machine learning with TensorFlow.

SEPTEMBER 2015 – AUGUST 2016

Report Bee, Chennai

Junior Product Hacker

As a novice software developer, my focus has been on enhancing UI features. I've developed a specialized UI library using React for rapid interface development. Additionally, I've gained experience in improving mobile app features using React Native. My primary tools include React and Ruby on Rails for software development.

JANUARY 2014 – AUGUST 2015

TATA Consultancy Services, Chennai

Assistant System Engineer

As a software developer specializing in the telecommunications sector, I've contributed to projects for clients such as Verizon and Sprint. My expertise lies in Java, J2EE, JUnit, Struts, and Hibernate, particularly for unit testing purposes. Through these projects, I've acquired in-depth domain knowledge, particularly in Provisioning and Activation modules within the telecommunications industry.

PERSONAL SKILLS



RECENT PROJECTS

2021 **Regere AI - Low Code Platform for Discrete Manufacturing | On-Going**

The low-code platform facilitates manufacturers in establishing virtual production lines and offers a comprehensive overview of real-world transactions occurring within the 4M framework of Manufacturing (Man, Machine, Material, Method). The objective is to enhance the productivity of production lines while incorporating an intelligent layer to optimize operations.

2020 **XSEED SuperTeacher (Web | Android | iOS)**

The XSEED SuperTeacher App enables schools and parents to conduct classes both online and offline, offering access to a curriculum comprising over 10,000 lesson plans. Leveraging technology such as Flutter, GraphQL, NodeJS, MongoDB, MySQL, Postman, Terraform, Kubernetes, and GitHub Actions, our educational platform ensures seamless delivery of content and interactive learning experiences.

2019 **SAPCOM**

As part of a collaborative team effort, we developed a platform aimed at generating algorithm-driven offline assessments for students, alongside maintaining a repository of questions. Leveraging technologies such as VueJS, Jest, NodeJS, MySQL, and Puppeteer, our team ensured the seamless creation of customized assessments while curating a comprehensive question bank.

2018 **Offline Digitization (reportbee.com)**

Our team implemented a solution to process handwritten answer sheets and digitize them using advanced image processing and machine learning techniques. Leveraging OpenCV, TensorFlow, and Python, we developed a model using the TensorFlow Object Detection library to detect objects within images, specifically questions on the answer sheets. This approach facilitated efficient grading and analysis of handwritten responses, enhancing the assessment process.

2017 **Reporting Engine (reportbee.com)**

I spearheaded the design and development of a highly scalable and maintainable architecture for creating and managing various types of reports including Report Cards, Consolidated Mark-sheets, and Group School Reports. Leveraging technologies such as ROR (Ruby on Rails), MySQL, JavaScript, and JQuery for rendering, as well as Puppeteer for PDF generation, and React with Redux for UI creation, our solution ensured seamless report generation and management. Additionally, I engineered a Chrome extension for debugging the rendered reports, enhancing the overall development and debugging process.

SOFTWARE SKILLS & METHODOLOGIES

GOOD LEVEL Microservices, Javascript, React, VueJS, Vuetify, CSS frameworks, NodeJS, Shell scripting, Terraform, Kubernetes, Google Cloud Platform, MySQL, MongoDB, GitHub Workflow (CI/CD), Docker, Firebase, Helm, TailwindCSS

INTERMEDIATE Python, Java, Chef, Ansible, GraphQL, Ruby on Rails, Flutter, Jest, Playwright, AWS, Monitoring tools - Sentry, New Relic, Stack-Driver, Prometheus & Grafana

BASIC LEVEL \LaTeX , TDD, Tensorflow, OpenCV (python), Ignition, Generative AI, LlamaIndex, OpenAI

OTHER HOBBIES OR INTERESTS

Cubing (WCA Profile), badminton, yoga and meditation