

KUSHAL AMARA CHANDRASHEKAR

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EDUCATION

University of Southern California,

Master of Science in Computer Science, **GPA: 3.83/4.00.**

Los Angeles, USA

Jan 2024 - Dec 2025

Coursework: Analysis of Algorithms, Database Systems, Machine Learning for Data Science, Deep Learning, Cryptography

Bangalore Institute of Technology,

Bengaluru, India

Bachelor of Engineering in Information Science and Engineering, **GPA: 9.41/10.00.**

Aug 2019 - May 2023

Coursework: Data Structure, Operating Systems, Object-Oriented Concepts, Unix, Web Technologies, Artificial Intelligence, Big Data

TECHNICAL SKILLS

Programming Languages: Java, Python, C, C++, JavaScript, TypeScript

Web & Backend: HTML, CSS, PHP, React.js, Node.js, Flask, Spring Boot, RestAPI, FastAPI

Databases & DevOps: MySQL, MongoDB, PostgreSQL, Docker, Kubernetes, AWS, Git, Kafka, Terraform

Testing Frameworks & Tools: Selenium, JUnit, TestNG, Mockito, Maven, Gradle

Machine Learning: PyTorch, Pandas, Numpy, Scikit-Learn, Matplotlib, Statsmodel, Seaborn

EXPERIENCE

MyReaa,

Los Angeles, USA

Associate Software Developer,

Feb 2025 - Present

- Developed a multithreaded automated web scraping system with Playwright to gather property data from diverse sources and created a Next.js frontend integrated with FastAPI for seamless data visualization.
- Automated appraisal report generation using LLMs and multi-source data (APIs + Playwright), reducing manual zoning and regulatory analysis from hours to minutes.

Telstra,

Bengaluru, India

Associate Software Engineer,

Jul 2023 - Dec 2023

- Enhanced production support by developing a Splunk dashboard to streamline event reconciliation between upstream and downstream services, improving data monitoring and early detection of discrepancies.
- Researched and evaluated alternatives to iText for invoice PDF generation, analyzing multiple tools (Jasper, Aspose, OpenHTML, StirlingPDF, and Flying Saucer) based on design compliance, accessibility, and formatting accuracy.
- Adopted Jasper as an optimal open-source solution, ensuring compliance and cutting licensing costs, saving \$80,000 annually.

Telstra,

Bengaluru, India

Business Trainee Intern,

Feb 2023 - Jul 2023

- Automated GitLab group management, enforcing approval rules and workflows via webhooks, saving hours monthly.
- Collaborated on Infrastructure as Code (IaC) using Terraform and Terragrunt to automate AWS Lambda provisioning, configured scalable custom Node.js layers, and optimized deployment for AWS S3 and DynamoDB.
- This streamlined the deployment process, reducing provisioning time by 30% and ensuring faster, more reliable updates.

PROJECTS

Resilient Email Notification System | Java, Kafka, React, Spring, MongoDB

- Architected a resilient email notification system using Kafka for reliable messaging, fault tolerance, prioritized delivery, real-time cancellations, and event logging. Ensured reliability through Docker containerization and Mockito unit testing.
- Developed a responsive React UI to efficiently monitor and manage email statuses, priorities, and cancellations.

AWS Photo Management System | Python, Flask, AWS (EC2, S3, Lambda, RDS, Rekognition, X-Ray, SNS, Cloud9)

- Built a scalable web application to facilitate photo uploads, automate image labeling with Amazon Rekognition, and securely authenticate via Amazon Cognito while managing storage and hosting with S3 and EC2.
- Engineered event-driven automation using AWS SNS, SQS, and Lambda, significantly enhancing scalability and efficiency.

Language Translator | Java, Android Studio, Firebase ML, XML

- Designed a mobile application in Android Studio, leveraging Firebase ML for nuanced dialects and seamless translation.
- Empowered users with multi-modal input through text typing, voice recognition via Google Cloud Speech-to-Text, and image uploads for text extraction using Firebase ML Kit.

FitGPT | HackSC Hackathon | React, AWS Lambda, Firebase, ElasticSearch, LLM, Flask - HackSC

- Developed a personalized fitness recommendation platform integrating Apple Watch and HealthKit data, enhancing user experience through dynamic React UI components.
- Integrated Firebase for real-time storage, ElasticSearch for efficient querying, and GPT-4 for generating tailored fitness insights.

PUBLICATION

E-Voting System using Blockchain Technology and Homomorphic Encryption, **International Journal for Research in Applied Science and Engineering Technology 2023.**