

KUSHAL AMARA CHANRASHEKAR

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EDUCATION

University of Southern California, Los Angeles, USA
Master of Science in Computer Science, **GPA:** 3.65/4.00.
Jan 2024 - Dec 2025
Coursework: Analysis of Algorithms, Database Systems

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, Design and Analysis of Algorithms, Operating Systems, Machine Learning, Artificial Intelligence, Big Data

TECHNICAL SKILLS

Languages: Java (proficient), Python (proficient), C/C++ (intermediate), R (basic)
Web Development: HTML/CSS, JavaScript/TypeScript, PHP, React, Microservices (Java Spring Boot), Rest API, SQL, MongoDB
DevOps and Cloud Technologies: Docker, Kubernetes, AWS, Git, Kafka, Terraform, Terragrunt

EXPERIENCE

Telstra, Bengaluru, India
Associate Software Engineer, Jul 2023 - Dec 2023

- Streamlined event reconciliation between upstream services by building a Splunk dashboard that enables efficient tracking and comparison of producer and consumer events, guaranteeing data consistency.
- Designed FTL invoice templates and conducted a comprehensive evaluation of industry-standard PDF generation tools (iText, Jasper, Aspose, Flying Saucer, OpenHTML, StirlingPDF) to select the best solution for efficient, business-aligned invoice creation.

Telstra, Bengaluru, India
Business Trainee Intern, Feb 2023 - Jul 2023

- Automated GitLab group management with Python scripts, including approval rule creation, merge request approval enforcement, and efficient member data handling, led to a significant time savings of over 20 hours per month.
- Collaborated on implementing Terraform and Terragrunt for Infrastructure as Code(IaC), enabling the automation of infrastructure provisioning and management for AWS environments.

ACADEMIC PROJECTS

RESILIENT EMAIL NOTIFICATION SYSTEM | Web application, Aug 2023 - Oct 2023

- Architected and implemented a feature-rich resilient email notification system to ensure prioritized and sequenced delivery for single or bulk messages.
- Incorporated real-time cancellation and comprehensive event logging for improved delivery control and auditability.

LANGUAGE TRANSLATOR | Android Developer, Apr 2022 - Jun 2022

- Built a user-friendly mobile application in Android Studio, leveraging Firebase ML for nuanced dialects & seamless translation.
- Empowered users with multi-modal input through text typing and voice recognition, enabling spoken word conversion to text and translated text playback.

WEB APPLICATION | AWS Developer: Building on AWS, Apr 2022 - May 2022

- Developed a Python 3 web app on AWS Cloud9, integrating Amazon Cognito for secure user sign-up/sign-in, enabling photo uploads to Amazon S3, and storing data in Amazon RDS on an EC2 instance with a load balancer.
- Implemented Amazon Rekognition for post-upload image analysis, enhancing functionality for object detection, facial recognition, and visual analysis tasks within the web application.

BOOK - DRIVE | Full Stack Developer, Oct 2021 - Dec 2021

- Formulated a user-centric book platform with a PHP and HTML5 front-end for seamless access, integrated with a robust MySQL back-end on the XAMPP server to optimize the performance and reliability of the book store database system.

PUBLICATIONS

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

- Devised a secure, blockchain-based E-voting system utilizing homomorphic encryption and a MySQL database. Designed robust authentication with one-time passwords sent to verified email IDs, and built secure web applications for all Election Officers, Booth Managers, and Users, ensuring tamper-proof ballots and encrypted data storage.

EXTRA-CURRICULAR

- Mentored youngsters in educational consciousness and strived to provide quality education through Claylab Education.
- Supported local school students in achieving strong academic performance and increased Higher/Technical education enrollment through the Skill Development Centre and CICC, BIT.