

# KUSHAL AMARA CHANDRASHEKAR

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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, Machine Learning for Data Science, Information Retrieval & Web Search

### 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

**Programming Languages:** Java (proficient), Python (proficient), C/C++ (intermediate), R (basic)

**Web Development:** HTML5/CSS, JavaScript, PHP, React, Node.js, Microservices (Java Spring Boot), Rest API, SQL, MongoDB

**DevOps and Cloud Technologies:** Docker, Kubernetes, AWS, Git, Kafka, Terraform, Maven, Gradle, Bamboo

**Testing Frameworks:** Cucumber, Selenium, JUnit, TestNG, Mockito

## EXPERIENCE

### Telstra,

Bengaluru, India

#### Associate Software Engineer,

Jul 2023 - Dec 2023

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

### 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 infrastructure provisioning and management automation for AWS environments.

## PROJECTS

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

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 Studio, Firebase ML, XML

Jul 2022 - Sep 2022

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

### AWS Photo Management System | AWS Developer Course

Apr 2022 - May 2022

- Developed a Python 3 web application that enables user sign-up, image uploads with descriptions, and automatic generation of labels, leveraging computer vision and deep learning, all hosted on EC2 instance with a load balancer for improved performance.
- Utilized Boto SDK for programmatic access to AWS services, facilitating seamless interactions and enhancing functionality through integrated APIs.

### Book Drive | PHP, HTML5, MySQL, XAMPP

Jan 2022 - Mar 2022

- 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.

## PUBLICATION

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

- Developed a secure blockchain-based E-voting system using homomorphic encryption and MySQL. Implemented OTP-based authentication via email and built secure web applications, 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.