

# Raghul K B

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## Education

### Master of Science in Computer Science

University of Alabama at Birmingham

CGPA: 4.00/4.00

Jan 2025 – Dec 2026

Birmingham, AL

### Bachelor of Technology in Computer Science and Engineering

Amrita Viswa Vidyapeetham

CGPA: 3.00/4.00

Jul 2019 – May 2023

Coimbatore, India

## Skills

**Languages:** Python, JavaScript, C#, C, SQL, HTML, CSS

**Frameworks:** .NET Core, ASP.NET MVC, ReactJS, Node.js, Express.js, Tailwind CSS

**Cloud/DevOps:** AWS (EC2, S3, DynamoDB, CodeBuild), Jenkins, Octopus Deploy, Git, Github, Bitbucket, JIRA

**QA/Testing:** Selenium, Manual Testing, API Testing (Postman, Swagger), Load Testing (JMeter), Kibana, New Relic

**Methodologies:** Agile, Scrum, Kanban

## Work Experience

### Application Developer

Cimpress India (BuildASign)

Jan 2024 – Nov 2024

Bengaluru, India

- Engineered responsive UI components and optimized the EasyCanvasPrints homepage, supporting a high-traffic platform with 25M+ lifetime orders.
- Collaborated with cross-functional teams to architect full-stack optimizations across multiple brands, improving Core Web Vitals and reducing page load time by 25%.
- Refined data ingestion pipelines by modifying Segment API integrations and DynamoDB schemas to align with evolving business requirements for tracking complex customer behavior.

### QA Engineer

Cimpress India (BuildASign)

Aug 2023 – Jan 2024

Bengaluru, India

- Performed manual and automated testing of ecommerce workflows using Java Selenium, including validation of RabbitMQ messaging events and Core Web Vitals analysis with DebugBear.
- Performed API testing of Shipping and Order Tracking RESTful APIs using Swagger and Postman, improving reliability of order workflows.
- Supported live deployments through CI/CD pipelines, monitored logs using Kibana, and resolved AWS production issues to maintain 99.9% uptime.

### QA Engineer Intern

Cimpress India (BuildASign)

Feb 2023 – Aug 2023

Bengaluru, India

- Gained end-to-end understanding of ecommerce systems from landing pages to order lifecycle, including customized plugins and integrations.
- Authored detailed test cases and feature documentation, improving regression coverage and product reliability.

## Academic Projects

### Full-Stack Therapy Booking Platform

Nov 2025 – Jan 2026

- Developed a MERN stack application with PostgreSQL and Role-Based Access Control (RBAC) for users.
- Implemented secure authentication via Google OAuth 2.0, JWT, and Protected REST API endpoints.
- Integrated Google Calendar & Meet APIs to automate scheduling, availability checks, and session management.
- Managed CI/CD deployment on Vercel and Render with environment-specific monitoring and API optimization.

### Credit Card Fraud Detection System

Aug 2022 – May 2023

- Built a Machine Learning pipeline to detect fraud in imbalanced datasets containing 280,000+ transactions.
- Applied SMOTE and Random Under-sampling to optimize Model Sensitivity and Precision-Recall metrics.
- Engineered and compared XGBoost, Random Forest, and Neural Networks using Scikit-Learn and Python.
- Utilized TensorFlow for statistical feature engineering and hypothesis testing on high-volume financial data.

### Named Entity Recognition (NER)

Jan 2022 – May 2022

- Designed an NER system using Python and Conditional Random Fields (CRF) for automated text analysis.
- Preprocessed 29,500+ research articles from the CORD-19 dataset for Natural Language Processing (NLP) tasks.
- Achieved 93% accuracy by leveraging contextual linguistic features and Random Forest classification models.