

VISHAL PRABHACHANDAR

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EDUCATION

University of Colorado Boulder

Master of Science in Computer Science - GPA: 4/4

Boulder, USA

Aug 2021 – May 2023

Ramaiah Institute Of Technology

Bachelor of Engineering (B.E.) Information Science and Engineering - GPA: 9.04/10

Bangalore, India

Aug 2015 – Jun 2019

SKILLS

Programming Languages: Python, Java, C++, JavaScript, HTML, CSS, Shell

Cloud Technologies: Google Cloud Platform, Amazon Web Services

Software & Tools: Docker, Kubernetes, RabbitMQ, Mulesoft, Git, Jira, Confluence

Frameworks: Flask, Node.js, Django, TensorFlow

Database management systems: MySQL, Postgres, MongoDB, Redis

EXPERIENCE

Akamai Technologies | Software Engineer

Jul 2019 – Jul 2021

- Collaborated with cross-functional teams and **improved** bi-directional contacts sync by **67%**
- Spearheaded the development of **15 REST API** wrappers for **SOAP WS** using Mulesoft for downstream system
- Saved **10 hours** of weekly effort using computer vision code by detecting 5 key entities in unstructured invoices
- Designed and developed **Dockerized** back-end code using Flask for the automated invoice processing tool

Akamai Technologies | Software Engineer Intern

Feb 2019 – Jun 2019

- Revamped EDI document processing from Perl to Oracle Fusion Middleware making it more maintainable
- Formulated an **integration and testing template** for API-led connectivity leveraging Mulesoft

delve.ai | Software Development Intern

Jun 2018 – Aug 2018

- Engaged in **augmented analytics** and persona classification of text and images
- Created Python scripts to obtain and preprocess training data for **classifying** images into multiple domains
- Implemented a streamlined process for image classification using **transfer learning** on **Google Cloud Platform**

IEEE Executive committee Ramaiah | Chairperson

Aug 2017 – Jun 2018

- Led a team of 10 for marketing and media coverage of activities and fests conducted under the club
- Increased sign-ups for technical events by 45% compared to the previous year using digital aides

PROJECTS

🔗 Scalable contextual image indexing and search | GCP, Docker, Redis, RabbitMQ, Flask

- Devised a **microservice** architecture based application to search for uploaded images using contextual features
- Deployed the components on **Google Kubernetes Engine** and established intercommunication using **RabbitMQ**
- Enabled **horizontal scaling** of flask server and worker nodes based on CPU utilization

🔗 Graphic based verbal reasoning | Python, Flask, Keras, HTML, CSS, JS, TinyDB

- Developed a **full-stack** web application that answers questions on images for the senior year project
- Trained a **Deep LSTM** model with VGG-16 weights on VQA dataset using **Amazon Web Services**
- Received accolades as the **best project** from the department and accepted into Github's Arctic code vault

🔗 Auducator | Python, Tkinter, Kaldi ASR

- Built a **desktop application** that teaches elementary blind and visually impaired students basic arithmetic's
- Primarily worked on leveraging open source code for **speech recognition** and natural-sounding TTS
- Recognized in the **national newspaper** for work with the NGO and blind school

🔗 Smart India Hackathon | Java, Firebase

- Created an Android app for the **ministry of statistics** in a hackathon organized by the government of India
- Enabled the collection of authentic and authorized data using fingerprint and coordinate verification
- Competed against 1500 other candidates and secured the KPIT **innovation award**

🔗 ElCortezA | Java, Bootstrap, MySQL, Tomcat

- Led a three-member team to create an intuitive and user-friendly food delivery web app with **JSP and bootstrap**
- Secured the **best project** award in the Java vocation training program amongst 100 participants