Ujwal Karippali Chandran

+1 (303)-260-9370 | linkedin.com/in/ujwalkc | ujwalkpl.github.io | ujka7319@colorado.edu

EDUCATION

University of Colorado Boulder   Colorado, USA
M.S. - Computer Science   *August 2024 - May 2026*
Academic Interests : Algorithms, Data-center Scale computing, Machine Learning, Natural Language Processing

Ramaiah Institute of Technology   Bengaluru, India
B.E. - Information Science and Engineering   *August 2017 - May 2021*
Academic Interests : Operating Systems, Data Structures, Algorithms, Cloud, Machine Learning, Databases, NLP

EXPERIENCE

JPMorgan Chase & Co. | *Software Engineer II*   *March 2021 - July 2024*
- Specialized in **designing and developing microservices** and user interfaces that enable customers to seamlessly open investment accounts with Chase. Tech Stack: Spring Boot, Kafka, Cassandra, Grafana, Prometheus, Private Cloud, Jaeger, Jenkins
- Developed an efficient event-driven architecture that **reduced** the investment account opening time from an average of **2 days to 15 seconds** by optimizing processes and streamlining multiple downstream systems to achieve significant performance improvements.
- Conducted **A/B experiments** that increased funding click rates for investment accounts by **8%.**
- Exceptional performance led to my **fast-track promotion** to Software Engineer 2, awarded to the **top 4%** globally at Chase, highlighting my strong commitment to delivering impactful results.

TECHNICAL SKILLS

Languages:	Java, Python, SQL, C, C++, Go, CQL, JavaScript, HTML, CSS
Frameworks:	Spring Boot, React, Ajax, Flask, Django, Scikit, Node.js, TensorFlow, Keras
Tools/Databases:	Kubernetes, Docker, Jenkins, Git, PostgreSQL, MySQL, SQLite, Cassandra, Kafka
Cloud Platforms:	AWS Certified, Google Cloud Platform

HONORS AND AWARDS

Smart India Hackathon Winner : Winner of National-Level Hackathon, awarded by **Govt of India** under National Crime Records Bureau.

Recognition from JPMorgan Chase & Co. : Rewards and Recognition Recipient from Head of Technology for Chase Digital Banking

GE HealthCare Precision Hack Top 8 : Awarded by **GE HealthCare** for building a hospital automation system for hassle-free booking of appointments and resource allocation inside a hospital.

FAER McAfee Scholar : Developed a web app to identify authorship, prevent fraudulent transactions and cyber crimes by using efficient machine learning algorithms.

PROJECTS

Police Patrolling Optimization : Developed an algorithm for optimizing police patrol routes by prioritizing locations based on crime records, the presence of banks and schools. Integrated data from a machine learning model into a customized **Travelling Salesman Algorithm** to determine the most efficient patrol path.

Student Buddy : Spearheaded a project to automate the distribution of study materials and college event updates to students. This system efficiently populates the database with real-time event information by aggregating data from class social media groups. Tech Stack: Python, Selenium, MySQL, Java Servlets, JSPs

PUBLICATIONS

Detection of Covid-19 through cough and breathing sounds using CNN: *Link*
By employing an ensemble of Convolutional Neural Networks, cough, breathing, and speech sounds were analyzed to determine if a person is infected with COVID-19, achieving an accuracy of 88.75%.

Optimizing Hospital-Patient Interactions through Advanced ML and NLP   *Link*
Engineered a hospital automation system using Feed forward neural network and a BERT-based NLP summarizer to streamline appointment booking and optimize resource allocation within the healthcare facility.

VOLUNTEER EXPERIENCE

Indian National Service Scheme volunteer : Engaged in a variety of activities including organizing health camps, Polio immunization drives, blood donation drives, and teaching students in underprivileged schools [Sept. 2017 - 2019]