

# HARSHITH HONNAGANAHALLI KADIAH

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## EDUCATION

### University of Alabama at Birmingham

Jan 2023 - May 2024

Master of Science in Computer and Information Sciences – GPA: **3.9/4.0**

Birmingham, AL

- Course(s): Deep Learning, Cloud Computing, Cloud Security, Cyber Risk Management, Network Security, Database Systems, Cryptography.

### PES University

Aug 2016 - Jul 2020

Bachelor of Technology in Computer Science – GPA: **3.0/4.0**

Bengaluru, India

- Specialization in Algorithm and Computing Models.

## EXPERIENCE

### University of Alabama at Birmingham

March 2023 – April 2024

#### Graduate Student Assistant: Data Analyst

Birmingham, AL

- Assisting the **UAB Heersink School of Medicine's Department of Radiology**, I specialize in assisting with the user interface and data visualization for cancer data analysis, particularly focusing on the UALCAN platform. My role involves leveraging data to generate insights that contribute to cancer research and potentially inform medical decision-making processes.

#### Graduate Student Assistant: Deans Assistant

Birmingham, AL

- Developed an Implemented real-time data analytics tools like Tableau and Power BI for monitoring nursing education data streams, enabling instant trend detection.
- Developed custom Python scripts (Pandas, NumPy) for real-time data processing, facilitating dynamic insights into student performance and integrating ML algorithms to predict student outcomes and identify at-risk individuals, supporting proactive intervention strategies.

### Larsen & Toubro Technology Services

Jan 2022 - Jan 2023

#### Software Engineer

Bengaluru, India

- Executed the seamless implementation of the client iOS applications on AWS cloud services, to elevate performance, scalability and dependability by leveraging the power of AWS Elastic Beanstalk to automate resource provisioning and load balancing, resulting in diminished operational burdens and heightened application responsiveness, especially during periods of peak user traffic.
- Implemented AWS Elastic Load Balancer and Auto Scaling for applications, exemplifying a strong dedication to security and scalability. This ensured high availability and fault tolerance, while dynamically monitoring and optimizing resource allocation to meet varying user demands, prioritizing user experience and maintaining a robust infrastructure.
- Implemented AWS Code Pipeline to integrate DevOps practices into agile cycles, automating build, testing, and deployment for iOS applications, resulting in faster project delivery and improved collaboration among team members and stakeholders

### Larsen & Toubro Technology Services

Jan 2021 - Dec 2021

#### Associate Software Engineer

Bengaluru, India

- Contributed in the development team responsible for the multiple iOS applications for an American-Swiss multinational client, LOGITECH, focusing on their forthcoming various gaming products and peripherals. Leveraged Xcode and Swift to create seamless connectivity between hardware and user interface for iOS devices specifically.
- Implemented advanced data management using CoreData and adopted the MVVM structure for the UI design and enhanced the code maintainability, resulting in a robust application that accommodated various user profiles and integrated different APIs.

### Larsen & Toubro Technology Services

Sept 2020 - Dec 2020

#### Fall Intern

Bengaluru, India

- Worked on a client Camera Annotations Android application with Live Gestures, enabling real-time screen capture and annotation using Gesture Stroke and Touch Gesture APIs. Implemented screen and audio capturing functionalities with Media Projection and Capture API from scratch, handled file saving conflicts and implementing file naming conventions post the recorded session.
- Developed and displayed proficiency in dev-ops practices by implementing screen and audio capturing functionalities with Media Projection and Capture API with Agile methodologies of CI/CD with test driven development for a faster delivery.

## SKILLS

**Programming:** Python, Java (Core Java, Spring), Swift, C++, C#, JavaScript (Vanilla, JQuery, Express.js, React.js), SEO, UNIX.

**API Integrations:** SOAP, REST, Web Services, Postman.

**Technologies:** ASP.NET, AngularJS, SOA, NOSQL (MongoDB, Cassandra), PLSQL.

**Tools:** Xcode5, Power BI, DAX, AWS, Flask, Bootstrap, JIRA, Node.js, Docker, Kubernetes (intermediate), Hadoop, MS Office.

## PROJECTS & RESEACRH

### Harnessing Neural Networks and NLP for Article Headline Generation in Machine Learning | *Python, TensorFlow, AWS, GloVe*

2024

Harnessing the power of Neural Networks and Natural Language Processing (NLP) to predict captivating article headlines and intricately designing and implementing the RNN (Recurrent Neural Network) Model, seamlessly integrated with LSTM (long short-term memory) Network, to intelligently analyze article texts and generate compelling headlines.. At its core lies a meticulously crafted RNN Model, synergizing seamlessly with the power of LSTM.

### Cloud Share – Web Based File Sharing Tool | *HTML5, CSS3, JS, Python, AWS SDK, SES, Dynamo DB, Ngnix*

2023

Worked on the UI for file selection and user input, a backend hosted on AWS EC2 to handle file processing and interactions with various AWS services, and integration with AWS S3, Lambda handler, SES for subscriptions, with Dynamo DB for the storage and Docker for packaging the application with its dependencies, libraries, and configurations into a container.

### BlockSafe: Immutable Public Platform with Blockchain-Enhanced SHA256 and SHA512 | *Python, Tweepy API, hashlib, IPFS*

2023

Snapshots of the Twitter (Now known as X) platform's data are Merkle-hashed using SHA256 or SHA512, and the resulting hash values are chained together, forming an unalterable record. The implementation also incorporates block chain technology for decentralized storage, digital signatures for authenticity, and time stamping for chronological order.