

# SMIT RAICHURA

+1 (812) 327 6015 ◊ [smit.grad.usa@gmail.com](mailto:smit.grad.usa@gmail.com) ◊ [LinkedIn](#) ◊ [Portfolio](#) ◊ [Github](#)

## EDUCATION

### Master of Science in Computer Science

Aug 2022 - May 2024

*Indiana University Bloomington*

Coursework: *Applied Algorithms, Elements of Artificial Intelligence, Applied Machine Learning, Software Engineering, Applied Database Technologies, Music Data Mining, Intro To Virtual Reality.*

## EXPERIENCE

### Hoosier Community Network

May 2024 - Present

*Senior Consultant*

*Bloomington, USA*

- Collaborated with the client to gather ETL requirements and implemented advanced **SQL stored procedures** for **complex data transformations**, reducing data preparation time by **30%**.
- Implemented **feature flags** for location-based promotional offers using **LaunchDarkly**, targeting specific regional user segments and increasing regional sales by **15%**.

### Webio Infotech

Apr 2020 - Jul 2022

*Software Engineer*

*Harrisdale, AUS*

- Contributed in development an e-commerce platform using ReactJS, Flask, and MySQL, increasing revenue by **\$300,000**, supporting over **5,000 concurrent users**, and scaling to handle a **3x** increase in traffic.
- Engineered **13+ reusable React components** and slashed API error rate by **16%** by implementing error handling, and **Redis caching**, saving **\$1,500** monthly due to reduced server load and downtime.
- Boosted application efficiency by restructuring database indexes and optimizing query execution plans, resulting in a **25%** reduction in data retrieval time and overall performance enhancement.
- Developed robust **ETL** pipelines that processed and stored data from **Apache Kafka**, replicating data to multiple **AWS S3** instances, ensuring **100%** data reliability and reducing data processing time by **40%**.
- Orchestrated automated testing, including unit and integration tests using **Selenium**, **Jest**, and **Pytest**, to ensure the reliability and functionality of the web application, reducing testing time by **15 hours** per week.
- Automated deployment processes using **AWS CodePipeline** and **CodeBuild** for CI/CD, significantly reducing deployment time across **AWS services (RDS, EC2, S3)** from 5 hours to **2 hours**.

## CERTIFICATIONS & ACHIEVEMENTS

- **AWS Certified: Solutions Architect – Associate** - [Badge](#).
- **Runner-up** in IU's **CRNY (Creatives Rebuild New York)** Data Visualization Competition – **Awarded \$1,500** for creating interactive artist data visualizations - [Article](#).
- **RabbitMQ Training Course** - by **CloudAMQP** - [Verify](#).

## SKILLS

Languages	Python, Java, JavaScript, C# C++, HTML, CSS, SQL, NoSQL
Frameworks	ReactJS, NodeJS, ExpressJS, Flask, Django, .NET, Mocha-chai, Jest, Selenium, Pytest
Technologies	MySQL, PostgreSQL, MongoDB, AWS-(EC2, S3, RDS, Lambda), Apache Kafka, RabbitMQ
Tools	Docker, Linux, Git, Github Actions, Jenkins, SonarQube, Postman, JIRA

## PROJECTS

**Vocalize** — *Flask, RabbitMQ, MySQL, MongoDB, Docker, Kubernetes*

- Engineered a robust **video-to-audio conversion microservice architecture**, facilitating **1,000+ conversions** per hour using **Flask**, **RabbitMQ**, **MongoDB** and **MySQL**.
- Configured **Docker containers** and **Kubernetes clusters** for microservices deployment, achieving **95% up-time** and streamlining the deployment process.

**EduFace** — *Django, OpenCV, MySQL*

- Built a facial recognition attendance system for **50+** students leveraging **Django**, **OpenCVs** and **MySQL**.
- Leveraged the **HOG (Histogram of Oriented Gradients)** object detection algorithm from **Dlib** and contour detection methods from **OpenCV**, to extract **68 facial landmark features** for face recognition.