

# ROHAN BHOWMICK

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## EDUCATION

### Syracuse University, Syracuse, NY

Master of Science; Major in Computer Science

**May 2024**

### Vellore Institute of Technology

Bachelor of Computer Science and Engineering

**Jul 2020**

## TECHNICAL SKILLS

**Languages and Frameworks:** Java, JavaScript, ReactJS, AngularJS, Python, C/C++, C#, Shell, HTML/CSS, PHP, NodeJS, XML, TypeScript, Go, Kotlin, React Native, Vue.js, Django, Flask, jQuery, GraphQL, Swift, Express.js, Flutter, Linux, UNIX.

**Databases:** MySQL, MongoDB, Postgres, DynamoDB, SQLite, Firebase.

**Others:** AWS, Selenium, Terraform, Azure, Git, Linux, Android Studio, PowerBI, Splunk Enterprise, Jasper reports, Docker, Azure DevOps, Unity, .NET, Xcode Development, API development, Github Enterprise Cloud, Machine Learning, Neural Networks, CI/CD, NLP, MSOffice.

## EXPERIENCE

### Software Engineer | Regions Bank | Birmingham, AL, USA

**May 2023 - Aug 2023**

- Engineered **Python** Scripts to facilitate **REST** API calls to **GHEC**, retrieving crucial metrics and enhancing monitoring capabilities achieving an efficiency metric of 94% and established APIs facilitating the migration from **Azure DevOps** to **GHEC** platform.
- Leveraged and transformed data into impactful **PowerBI** and **Splunk** dashboards, yielding a 25% operational efficiency boost and 15% compliance increase. These real-time insights offered a comprehensive view of organizational migration status.

### Software Engineer | Standard Chartered Bank

**July 2020 - Aug 2022**

- Led the creation and development of end-to-end banking systems during 2 years of professional experience, designing solutions and leveraging technologies such as **Java/J2EE**, **webservices**, **Spring Boot**, **AngularJS**, **ReactJS**, **GIT**, **PostgreSQL**, **MySQL**, **NodeJS**, **Jasper reports** and **Selenium**. Additionally, played a critical role in software builds, release, and deployment processes.
- Managed and facilitated projects with a team of 6 including Asia Miles integration with Hong Kong division and Customer Origination application, performed high to medium complexity source code development.

### Full Stack Developer (Contract) | KGE Technologies Pvt. Ltd

**Jan 2018 - Feb 2019**

- Created an e-commerce website and App for a start-up company and integrated project with **Amazon S3** bucket and hosted website in EC2 instance server and helped in debugging and reviewing code. **Swift**, **ReactJS**, **MySQL**, **AWS**, **Java** and **Firebase** was used.
- Monitored company's website security and enhanced it by more 55 % including debugging and continued traffic growth.

### Cloud Engineer / Full Stack Developer (Contract) | Go Offer HyperLocal

**Aug 2017 - Mar 2018**

- Revitalized the application by optimizing **ReactJS** front end and server-side, boosting performance by 20%. Streamlined database operations with **PostgreSQL** and **Redis**, reducing query response times by 30%. Significantly improved accessibility by enabling public access to the website and remote desktop ports on **IIS**, leading in a remarkable 40% enhancement.
- Improved latency speed by 80 % by implementing **REST/HTTP** APIs, including **JSON** data formats and API versioning strategy. Deployed website by using **MERN** stack on **Linux** server.

## PROJECTS

### **Smart Helmet- IOT and Cloud Enabled Helmet (06/2018).**

- Built and designed a smart helmet for coal miners to real time monitor different conditions with initial warning intelligence on harmful gases, helmet removal, collision detection in mining areas resulting in an outstanding 95% accuracy rate for condition detection. Achieved a 25% improvement in data accessibility with cloud. Used **C/C++** for Arduino scripts.
- RF module was used for information transfer and deployed cloud system for integration with database system.

### **Zschedule Application for VIT (06/2017).**

Built **Android** and **IOS (Swift)** applications made for students to keep a track of attendance and homework assigned by teachers.

### **QuickTUT Application for VIT (11/2016).**

Developed an app for first year students to quickly review important concepts and formulas before exam with **Swift**, **Android Studio** and **Firebase**.

### **CancerFREE- Website for cancer patients (08/2019).**

- Implemented a website with a prediction model to detect diseases with an efficiency of 92% (including cancer) with inputs of symptoms from user and devised a section to produce necessary information of different cancers, causes and symptoms.
- Provided feature of tracking nearest multi-specialty hospital for treatment of cancer victims. Used **Python**, **AngularJS**, **Java** for development.

## PUBLICATIONS | CERTIFICATIONS | AWARDS | ACHIEVEMENTS

- Doctor Finder and Cancer detection system for patients (IOP Conference Volume 925, Issue 1, pp. 012038-2020).
- MICROSOFT Technology Associate | AWS Associate Solutions Architect | Core JAVA Certification- SV technologies.
- Won honorary distinction award for developing college application and 2 national hackathons during under graduation course.
- Led fest organizing group and Android development committee for college technical fests-2017,2018.
- Designed an innovative online learning platform for free education resources and mentorship to underprivileged youth. Achieved partnerships with NGOs, secured grants for sustainability, and mentored a team of volunteers, increasing educational access.
- Organized and hosted multiple hackathons within local tech community, bringing together innovators from diverse backgrounds to tackle real-world challenges.
- Played a pivotal role in building an entrepreneurial community on campus or within local area. Organized events, workshops, and networking opportunities, fostering an environment where like-minded individuals could collaborate, share ideas, and embark on entrepreneurial ventures.