

VIKRAM BADHAN

Houston, TX • (347)856-2291 • badhanvik95@gmail.com • [LinkedIn](#) • [GitHub](#) • [Portfolio](#)

EDUCATION

New York University, New York, NY
Master of Science, Computer Science

Sep '21 – May '23

Guru Gobind Singh Indraprastha University, New Delhi
Bachelor of Technology, Information Technology

Aug '14 – May '18

EXPERIENCE

Indus Communities

Aug '24 – Present

Data Analyst

Houston, TX

- Automated **150K+** invoice downloads from **Entrata** using **Selenium & Puppeteer**, reducing manual effort by **95%** and improving financial reconciliation accuracy.
- Developed **RealPage API integrations** to automate data exchange, optimizing the renewal process for lease expirations and reducing lease processing time by **40%**, while streamlining utility billing for **38+ properties**.
- Led a **Market Data Analysis** project using **ApartmentIQ** to evaluate rent prices, fees, and amenities, shifting to a data-driven pricing strategy that improved rate-setting efficiency by **25%** and increased revenue potential by **10%**.

One Community Global

Aug '23 – June '24

Software Engineer

San Gabriel, CA

- Developed features and fixed bugs in the **HGN app** using **React.js**, **Node.js**, **Express.js**, and **MongoDB**, improving task management accuracy by **25%** and achieved a **20%** reduction in deployment time by actively managing and optimizing the **CD/CI** pipeline through **Jenkins**.
- Implemented database query optimizations and integrated **Redis caching**, reducing response times from **2 seconds** to **0.5 seconds**.
- Reviewed and tested **100+ pull requests**, ensuring adherence to **TDD** and **SOLID** principles, reducing bugs by **10%**, and increasing code coverage by **35%** through **Jest** unit tests to prevent critical production issues.

New York University – IT Department

May '22 – May '23

Software Engineer

Manhattan, NY

- Developed **SupportHub**, a cloud-based IT ticketing platform using **React.js**, **Express.js**, and **MongoDB**, hosted on **AWS**. Integrated an LLM-powered chatbot, automating ticket triaging and responses, improving resolution efficiency.
- Streamlined deployment processes by migrating the codebase from **Snowflake** to **GitLab**, leveraging **AWS Lambda** (Python runtime) for automation. Reduced deployment time by **30%**, enabling faster iteration and code delivery.
- Configured **AppDynamics** dashboards and real-time alerts for proactive performance monitoring, reducing mean time to detection (MTTD) by **40%** and enhancing system stability.

New York University – Department of Civil and Urban Engineering

Feb '22 – May '22

Software Developer

Brooklyn, NY

- Developed a cutting-edge application utilizing **ReactJS's ThreeJS** library to render and visualize complex BIM (Building Information Models) models, resulting in a **40%** reduction in rendering time compared to previous methods.
- Utilized **Python's IFCOpenShell** library and **React-Three-Fiber** renderer to efficiently parse and extract over **3000** mesh components from BIM models, improving data processing speed by **40%**.
- Mapped the mesh components with the BIM model to dynamically show highlights, annotations, and text overlay on a selected group of meshes.

Innefu Labs

July '20 – Aug '20

Business Analyst

New Delhi, India

- Utilized the Big Data framework **"Prophecy"** to conduct text analysis, image analysis, and predictive intelligence for law enforcement clients, resulting in a **30%** increase in efficiency in identifying potential threats.
- Collaborated with client and developer team to gather requirements, resulting in a **20%** reduction in development time.

PROJECTS

AWS Smart Health App ([Link](#)) | STACK - S3, Lambda, JavaScript, Python, DynamoDB, OpenSearch, Sagemaker

- Developed a **JavaScript** based online meal recommendation and food delivery app that suggests meal to users based on their nutritional goals.
- Utilized an online food dataset which included meals with their nutritional values to train a machine learning model which gave us customized meal plans for the users to choose.

Dining Concierge Chatbot using AWS ([Link](#)) | STACK - S3, Lambda, Lex, SNS, SQS, Python, JavaScript, DynamoDB, OpenSearch

- Developed an AWS Lex Chatbot that recommends restaurants in New York City. Scraped data from Yelp, indexed the results using OpenSearch and stored the data in DynamoDB.
- Deployed Lambda function to interpret chat inputs and send recommendations to the user's phone using SNS.

Qatar 2022 World Cup Predictor ([Link](#)) | STACK – Python, PySpark, Kafka, SparkML

- Conducted in-depth data analysis on FIFA World Cups (2015-2022) and built predictive models (**Random Forest**, **XGBoost**) to forecast team performance and match outcomes for Qatar 2022, achieving R^2 scores as low as 0.144.
- Predicted player market values, wage trends, and potential retirements to identify top players for club signings.

TECHNICAL SKILLS

- Languages:** Java, Python, JavaScript, HTML, CSS
- Frameworks:** Node.js, Express.js, React.js, Three.js, D3.js, Selenium, Puppeteer, Spring Boot, REST, React-Three-Fiber
- Database / Tools:** MySQL, MongoDB, Redis, Postgres, Git, PySpark, Kafka, Jenkins, Postman, AWS, Kubernetes, Docker