

# GOURAB BANK

315-450-1580 · bankgourab@gmail.com · LinkedIn: gourabbank · GitHub: gourabbank · Portfolio: gourabbank.com

## EDUCATION

### Syracuse University

*Master of Science in Computer Science*

**Aug. 2023 – May 2025**

*Syracuse, New York*

### University of Mumbai

*Bachelor of Engineering in Computer Engineering*

**Aug. 2019 – May 2023**

*Mumbai, India*

## TECHNICAL SKILLS

<b>Programming Languages</b>	Java, Python, JavaScript, HTML5, CSS, TypeScript, Golang, Swift, Kotlin, Solidity
<b>Frontend Technologies</b>	React.js, Next.js, Ember.js, SwiftUI, TailwindCSS
<b>Backend Technologies</b>	Spring Boot, Node.js, Flask, REST APIs, GraphQL, Microservices, PostgreSQL, MySQL
<b>Cloud/DevOps</b>	AWS Lambda, Docker, Firebase, CI/CD, Database Design, Object-Oriented Programming
<b>AI/ML</b>	NumPy, PyTorch, TensorFlow, Machine Learning

## WORK EXPERIENCE

### Zenziee

*Software Engineer*

**May 2025 – Present**

*New Jersey, USA*

- Transformed user experience by rebuilding public website with React.js and Lighthouse optimizations, doubling SEO scores and reducing load time by 60% through responsive design and performance optimization
- Architected scalable infrastructure using Golang microservices with autoscaling and Datadog monitoring, maintaining sub-200ms API response times while handling 20K+ daily requests
- Optimized database performance by 50% through PostgreSQL schema design with B-tree indexing and query optimization during peak traffic periods

### iConsult Collaborative

*Software Engineer*

**August 2024 – May 2025**

*New York, USA*

- Pioneered AI-powered audio intelligence by architecting serverless music similarity engine using Flask, machine learning (MFCC), and AWS Lambda, serving 5K+ concurrent users with sub-1-second response times
- Streamlined DevOps workflows by integrating WIX frontend with Dockerized Flask microservices, reducing deployment cycles by 30% through CI/CD implementation
- Enhanced user experience by 40% through MFCC-powered audio fingerprinting APIs with intelligent caching and real-time match feedback

### SocialTechLabs

*Software Developer*

**May 2024 – January 2025**

*Ohio, USA*

- Built secure mental health platform using Golang backend services with object-oriented programming, enabling real-time communication across mobile and web interfaces
- Implemented OAuth2 and JWT authentication systems, reducing unauthorized access incidents while improving session reliability for sensitive user interactions
- Developed iOS BestFriends Network app using Swift and SwiftUI, improving app performance and user engagement through seamless API integration

## PROJECT EXPERIENCE

### CashSplash: Personal Finance Management App

- Developed Kotlin-based Android budgeting app with Firestore integration, enabling real-time expense tracking and savings goal management with offline persistence capabilities
- Boosted user engagement by 30% through Firebase Authentication, push notifications, and LiveData-driven dashboards with MVVM architecture for scalability
- Implemented WorkManager sync jobs ensuring data consistency and access during network outages while maintaining optimal app performance

### BillBuddy: Smart Group Expense Manager

- Built full-stack React.js and Node.js application for real-time bill splitting and payment settlement with OTP-based authentication and dynamic ledger generation
- Delivered 50+ Jira stories across 7 agile sprints using RESTful APIs and PostgreSQL database design, accelerating dispute resolution by 40% through automated validation
- Integrated notification engine with debt validation logic and MVC architecture, improving task resolution speed and user experience

### Decentralized Banking Services using Blockchain Technology

- Developed full-stack DApp for peer-to-peer cryptocurrency payments using Ethereum smart contracts and React frontend with MetaMask wallet integration
- Implemented ERC-721 token standard for NFT trading platform with optimized gas usage and off-chain logic for improved scalability and reduced transaction costs
- Published research at IEEE Conference demonstrating technical innovation in decentralized finance and smart contract development

## PUBLICATIONS

### Decentralized Banking Services using Blockchain Technology

*2023 8th International Conference on Communication and Electronics Systems (ICCES), IEEE*

**2023**