# GOURAB ABHIJIT BANK

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## EDUCATION

**Syracuse University -** Master of Science in Computer Science, Syracuse, NY     Aug 2024 – May 2025
**University of Mumbai -** Bachelor of Engineering in Computer Engineering, Mumbai, India     Aug 2019 – June 2023

## TECHNICAL SKILLS

- **Languages & Frameworks:** C++, Java, Golang, JavaScript, Python, Solidity, React.js, TypeScript, HTML5
- **Databases & Cloud:** PostgreSQL, MySQL, MongoDB, Redis, AWS (Lambda, S3, API Gateway, SNS, EC2, ECS, RDS, CloudWatch, IAM, SQS), Firebase, Render, GCP (Cloud Functions, Firestore), Azure
- **Backend & DevOps:** RESTful APIs, Microservices Architecture, CI/CD (GitHub Actions), Docker, Kubernetes, Terraform, NGINX, Git, Jenkins, CloudFormation, Helm
- **Distributed Systems:** Caching Strategies, Load Balancing, Rate Limiting, Event-Driven Architecture, Horizontal Scaling, Scalable Backend Development, Auto Scaling Groups
- **Security & Auth**: OAuth2.0, JWT, TLS, Role-Based Access Control (RBAC), Secure API Design, IAM Policies
- **Tools & Platforms**: Visual Studio Code, Postman, Swagger, Figma, Agile/Scrum, Jira, Notion, GitHub, Datadog, Prometheus, Grafana, ELK Stack

## EXPERIENCE

**Lead Full Stack Developer,** ZenZiee - Cleveland, Ohio     May 2025- Present
- Rebuilt public website using **React.js**, achieving **2x** improvement in **SEO** score and reducing **TTI** (Time to Interactive) by **60%**, boosting daily active sessions
- Designed and **scaled Golang**-based **microservices** handling **20K+** daily requests with **<200ms** latency, driving modular architecture and high availability in production
- Engineered advanced **PostgreSQL schema** with custom **indexing** and **normalized design**, improving query performance under heavy load by **50%**

**Software Developer,** iConsult Collaborative - Syracuse, New York     August 2024 - May 2025
- Architected a music similarity service using **MFCC** + **Flask** on **AWS Lambda**, supporting 5K+ concurrent users with **<1s average response time**
- Integrated **WIX frontend** with **containerized Flask microservices** via **Render**, reducing deployment time by **30%** and **streamlining** full-stack delivery
- Delivered audio analytics **APIs** with **MFCC**-driven fingerprinting, enabling **real-time** feedback on match accuracy and smooth **UI** integration

**Software Developer,** SocialTechLabs - Cleveland, Ohio     May 2024 -January 2025
- Built **cloud-native Golang microservices** for a mental health app, ensuring **>99.9% uptime** and **scalable** push notification delivery via **AWS SNS**
- Reduced **backend** latency by **35%** by integrating **Redis** and **Lambda** functions for event-driven processing
- Implemented **OAuth2/JWT**-based authentication and contributed to full-stack features supporting real-time data sync and secure access

## PROJECTS

**CashSplash: Personal Finance Management App** *Kotlin | Firebase | Room | Jetpack | WorkManager*     Spring 2024
- Developed **Android** budgeting app with real-time budget tracking, savings goals, and offline sync via **Firestore**
- Integrated **Firebase Authentication**, **Messaging**, and built LiveData dashboards for financial alerts and performance reports

**BillBuddy: Smart Group Expense Manager** *React.js | PostgreSQL | Express.js | MVC Architecture*     Fall 2024
- Led development of scalable group expense platform with **dynamic** bill splitting, **OTP**-**based auth**, and real-time settlement logic
- Built **Node.js** backend with **PostgreSQL** and developed **React** dashboards with analytics, driving user engagement and intuitive UX
- Applied **OOP** principles and agile practices using **Jira** to coordinate **7** sprints and **50+** stories, maintaining a strong delivery cadence and ensuring production-grade quality

**Scalable Decentralized Banking System** *C++ | Java | React.js | Solidity | AWS* Link     Spring 2023
- Created **blockchain**-based banking platform with **Solidity smart contracts**, processing **10K+** transactions/sec with **AWS Lambda** off-chain computation
- **Designed distributed storage** and validation **algorithms**, reducing **network congestion** by **40%** and ensuring **99.99%** availability

**AI-Powered E-Learning Platform** *Node.js | Express.js | MongoDB | AWS*     Spring 2022
- Engineered cloud-first education system serving 100K+ students with self-assessment tools and **JWT**-based **RBAC** authentication
- Optimized **MongoDB** queries and caching to reduce page load time by **50%,** enhancing user retention and responsiveness

## PUBLICATIONS

"Decentralized Banking Services using Blockchain Technology" 2023 8th International Conference on Communication and Electronics Systems (ICCES), Coimbatore, India, 2023, pp 505-511.