Mustafiz Kaifee Mumtaz

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EDUCATION

- **National Institute of Technology, Jamshedpur** — Jamshedpur, India
  Bachelor of Technology — CGPA-8.01 — *Aug 2017 - May 2021*

EXPERIENCE

- **BitGo** — Bengaluru, India
  Software Engineer — *May 2024 - Present*

  - **Transaction Monitoring System**: Designed and implemented a microservice for real-time **fraud detection**, high-risk transfer identification, and **anomaly detection**, improving security and compliance.
  - **Travel Rule Compliance**: Developed an independent **funds withdrawal system** aligned with regulatory frameworks in **Singapore**, **Europe**, **Dubai**, and **Korea**, ensuring **international compliance** and **low-latency processing**.
  - **VASP Dashboard**: Built a full-stack web service and admin dashboard for **Virtual Asset Service Provider** to manage **Personally Identifiable Information (PII)**, process transfer claims/rejections, and generate detailed reports in CSV/JSON.
  - **Technical Design Documents (TDD):**: Authored clear and concise **Technical Design Documents** for major features and architectural changes to support cross-team collaboration and faster onboarding.
  - **Mentorship & Code Reviews**: Mentored two backend interns by conducting **code reviews**, assigning tasks, and promoting **Agile practices** and **object-oriented design**.
  - **Tech Stack**: Node.js, TypeScript, MongoDB, PostgreSQL, Kafka, Kubernetes, React.js, Git, Microservices

- **MediBuddy** — Bengaluru, India
  Software Development Engineer — *April 2022 - May 2024*

  - **ABHA Integration**: Led development of **Ayushman Bharat Health Account (ABHA)** features to centralize digital health records, contributing to **150K+ ID creations** and **120K+ linkages**, supporting **certification by NHA.**
  - **Unified Health Interface (UHI)**: Built a scalable **microservice** connecting with partners like **PayTM**, **Practo**, and **Driefcase**, leading to a **25% increase** in online consultations.
  - **CoWIN API Integration**: Integrated government **CoWIN APIs** for COVID vaccination records; over **100,000 certificates downloaded** through the MediBuddy platform.
  - **Offline Consultation Platform**: Developed a hybrid consult module to promote **in-person appointments**, resulting in **200% growth** in footfall within 3 months.
  - **Technical Documentation**: Created **Technical Design Documents** and internal wikis to improve onboarding and clarify complex feature rollouts.
  - **Tech Stack**: Nest.js, Node.js, Java, MySQL, PostgreSQL, React.js, Next.js, Docker, Kafka, Jenkins, SQS, SNS, Lambda, Git, Agile Methodologies, REST APIs

- **Axis Bank Freecharge** — Mumbai, India
  Graduate Engineer Trainee — *January 2021 - April 2022*

  - **Failure Retrial Microservice**: Built a backend service using **AWS SQS** to handle transaction retries and detect duplicates, reducing manual intervention and improving reliability by **93%**.
  - **Payment Gateway**: Integrated **Razorpay** as the new processor, reducing failures by **50%** compared to Juspay.
  - **Referral System**: Designed and deployed a **referral program** using Node.js and MongoDB, increasing user-generated revenue by **25%** in 12 months.
  - **System Redesign**: Refactored backend architecture for cost and performance efficiency, achieving **40% faster response times**, **30% lower infrastructure cost**, and **50% CPU optimization**.
  - **Tech Stack**: Node.js, MongoDB, AWS, Docker, Kafka, Microservices, REST APIs, CI/CD, JSON, SQL, Git

SKILLS

- **Programming Languages:** JavaScript, TypeScript, Python, Java
- **Web Technologies:** HTML, CSS, React.js, Next.js
- **Backend Technologies:** Node.js, NestJS, REST APIs, JSON, JWT, Microservices, Full-Stack Development
- **DevOps and Tools:** Docker, Kubernetes, AWS (Lambda, SQS, SNS, S3), Git, GitHub Actions, Jenkins
- **Databases:** MySQL, PostgreSQL, MongoDB, Elasticsearch, Database Management Systems (DBMS), SQL
- **Architecture & Design:** Systems Design, OOP (Object-Oriented Programming), Design Patterns, Agile Methodologies, CI (Continuous Integration)
- **Tools & Visualization:** Superset, Retool, Technical Documentation
- **Soft Skills:** Code Review, Problem Solving, Mentorship
- **Cryptography Algorithm:** Diffie-Hellman Key Exchange Algorithm, AES, RSA

PROJECTS

- **Moneymind (moneymind.mustafizkaifee.in)** — *Dec 2024 - Present*
  - Built a **full-stack personal** finance app with **category-based filters**, **graphical analysis**, and **CSV/PDF export**; planned **UPI, SMS, card/email** integration with NLP and rule-based parsing for automated transaction entry.

ACTIVITIES AND LEADERSHIP

- **GirlScript Summer of Code** — *March 2020 - 2022*
  - Mentored **50+** global backend developers, conducting **100+ code reviews** while teaching TDD, API first design, system design, DBMS, and clean architecture principles..