

# Mohammad Aliyaan Zahid

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## PROFESSIONAL SUMMARY

Performance-driven Software Engineer with hands-on experience building and deploying full stack applications using React, Node.js, Python, and AWS (Lambda, EC2, S3). Skilled in designing scalable systems, developing RESTful APIs, and optimizing backend performance in production-grade environments. Currently working on LLM-powered chatbot integration to enhance internal developer productivity at a fintech startup. Experienced with CI/CD pipelines, containerization (Docker), database design (PostgreSQL), and cloud infrastructure using AWS. Passionate about shipping real-world products, solving technical challenges at scale, and contributing to high-impact, user-focused engineering teams.

## EDUCATION

**University of Maryland Baltimore County – Baltimore, MD**  
*Bachelor of Science in Computer Science* Minor: Information Systems Graduation: Dec 2025  
Cumulative GPA: 3.41 /4.00  
Relevant Coursework: Data Structures and Algorithms (C++), Database Design, Web Dev, Software Engineering, Computer Architecture

## EMPLOYMENT EXPERIENCE

**Software Engineer Intern | Finz | Fintech Startup | New York City, NY, USA** Feb 2025 – Present

- Developed scalable backend services using Python and Node.js, enabling AI-driven credit decisions and reducing customer pre-qualification time by 35%.
- Integrated third-party financial APIs to automate onboarding workflows, expanding credit access for underserved users and improving operational efficiency.
- Built secure RESTful APIs and real-time data pipelines to support live financial transaction analysis at scale.
- Optimized high-traffic views built in React and Next.js, improving page load performance and reducing latency by 40% across devices.
- Contributed to LLM and ML experimentation, prototyping intelligent credit scoring tools and dynamic limit generation models for risk-adjusted decisioning.

**Software Developer Intern | Nokia Al-Saudia | Riyadh, Saudi Arabia** June 2023 – Aug 2023

- Built and tested backend microservices using Java and Spring Boot, maintaining 99%+ uptime for customer-facing APIs.
- Deployed services to AWS EC2 and Lambda, automated build/deploy cycles via CI/CD pipelines, and participated in Agile sprints and standups.
- Translated stakeholder requirements into production-ready backend features, optimizing for real-world performance and deployment efficiency.

**Remote IT Support | Helping Hand NGO | Lahore, Pakistan** April 2021 – Aug 2021

- Built Airtable-driven system to digitize and manage 1000+ volunteer records.
- Automated workflows using scripting to reduce admin tasks by ~20%.
- Provided remote IT support and improved internal tool usability for smoother non-profit operations.

**IT Assistant | Masem Hotel Suites | Riyadh, Saudi Arabia** Dec 2020 – March 2021

- Co-developed internal tools to automate check-in and payment flows, reducing guest processing time by 20%.
- Resolved 100% of software system errors within SLA timelines, improving operational uptime.
- Wrote SQL queries to generate actionable business reports, accelerating executive decision-making.

## PROJECTS

**CarePulse Healthcare App | Personal Project** Feb 2025 – March 2025

- Engineered a full-stack healthcare application using Next.js, MySQL, and JWT, ensuring HIPAA-compliant data security for 1,000+ users.
- Implemented containerized deployments with Docker, improving scalability and maintainability across development environments.
- Designed API validation and unit testing for scheduling and patient data modules, enhancing system reliability by 40%.
- Integrated Kubernetes to automate load balancing and service orchestration, aligning with cloud-native deployment strategies.

**To Do App | Personal Project** Feb 2025

- Developed modular backend services with Node.js and PostgreSQL, focusing on test-driven development and secure session control.
- Deployed via Docker on Linux CLI, using shell scripts to manage builds and rollbacks across multiple environments.
- Designed CLI-based scripts and cron logic to automate backend cleanup tasks, simulating hardware-integrated job cycles.
- Wrote integration tests and logs to simulate stress testing and monitor API response under variable data loads.

**Brogram | Personal Project** Jan 2025

- Built a React.js based dynamic training plan generator, leveraging rules-based algorithms to personalize workouts.
- Refactored UI components with TypeScript and React Hooks, improving modularity and frontend performance.
- Increased UX retention by 35% by integrating Local Storage API for persistent session state and offline usage.

## TECHNICAL SKILLS

- Languages:** Java, Python, C++, C#, JavaScript, TypeScript, SQL, Bash, PowerShell, Django, Perl, Linux, .NET, HTML5, CSS JQuery
- Frameworks/Tools:** Spring Boot, Node.js, React, Next.js, Express.js, SpringBoot, Flask, Rest, RestAPI, RESFTful API
- Testing & QA:** Unit Testing, Integration Testing, TDD principles, Postman, Mocha, Jest, Logging & Debugging
- Cloud & DevOps:** Docker, AWS (EC2, Lambda, S3), Azure DevOps, CI/CD, GCP, Kubernetes, CDN, GraphQL, Jenkins, Pandas, Numpy, Matplotlib, sci-kit
- Database:** MySQL, PostgreSQL, MongoDB, SQL Server, NoSQL
- Environments:** Visual Studio, VS Code, Linux CLI, Git, GDB, JIRA, Confluence, GitHub, neural networks, machine learning concepts.
- Concepts:** Agile/Scrum, SDLC, API Integration, Microservices, OOP, Hardware Interfacing Basics
- Certifications:** Google AI Essentials Coursera, Google IT Support Coursera, Google Data Analytics Courses [ongoing],