

Zubair Hassan Babadar

Full Stack Developer | Berlin, Germany | +49 15511547097 | zubairbabadar6@gmail.com | github.com/ZubairBabadar

About

Full-Stack Software Engineering student with experience in Java, Spring Boot, React, TypeScript, PostgreSQL, and AWS. Skilled in frontend development, backend API development, and seamless API integrations. Experienced in database design, management, and handling complex queries with SQL/PostgreSQL. Strong understanding of RESTful APIs, authentication, and scalable system architecture. Passionate about AI & Machine Learning, including Linear Regression, Decision Trees, and Random Forests. Interested in LLMs, AI agents, and building intelligent, data-driven applications.

Projects

Finora — Stock Market Trading App— (Flutter · Dart · Firebase) [Link](#) (2026)

- Built a cross-platform Flutter trading dashboard consuming the Finnhub REST API for live quotes, historical price charts, and market news across multiple timeframes.
- Implemented Firebase Authentication and Cloud Firestore to securely sync portfolio state, powering a buy/liquidate simulation with real-time cost-basis and profit/loss tracking.
- Designed a modular service-layer architecture (ListenableBuilder/ChangeNotifier) separating business logic from UI, with interactive `fl_chart` visualizations for asset allocation.

Rocket Ascent Vector Control System— (C · Python) [Link](#) (2025)

- Developed a real-time cascaded PID control system in C for rocket thrust vector control, enabling stable 3-axis attitude correction using sensor-driven feedback loops.
- Implemented physics-based torque-to-gimbal conversion and safety mechanisms (anti-windup, saturation, filtering) to ensure robust and realistic control behavior.
- Designed a modular control architecture with data logging and validation tools, allowing performance analysis and efficient tuning of control gains.

Bio-Informatics-Dashboard — (HTML · CSS · JavaScript · Chart.js) [Live Demo](#) (2025)

- Developed a responsive web application for gene expression visualization and genetic variant analysis using JavaScript, Tailwind CSS, and Chart.js.
- Implemented VCF file upload, filtering, sorting, pagination, and interactive charts for efficient exploration of biological data.
- Designed a dynamic and user-friendly interface with autocomplete, dark mode, and fully responsive components.

Experience

HOPn (Remote) | Munich, Germany

Sep 2025 - Feb 2026

Full-Stack Developer Intern

- Contributed to multiple web applications including a fitness platform, Oktoberfest event application, and bioinformatics dashboard.
- Developed frontend and backend features supporting application functionality and performance.
- Assisted in API integration and database operations.
- Conducted data collection, cleaning and preprocessing for analytics requirements.
- Collaborated using Git-based workflows.

Education

University of Europe for Applied Sciences

Sep 2024 - Expected Aug 2027

Bachelor's Degree | B.Sc. Software Engineering | GPA: 88/100

Skills

Languages: Python · Java · JavaScript (ES6+) · TypeScript · SQL · C++

Frontend: React · Next.js · Vue.js · HTML5 · CSS3 · Tailwind CSS · Bootstrap · Material UI

Data Science & Analytics: Pytorch · Power BI · Tableau · Data Visualization · Data Cleaning · Data Processing · Exploratory Data

Analysis

Databases: PostgreSQL · MongoDB · SQL Server · SQLite

Tools & Platforms: AWS · Git/Github · Linux · Docker · Vite · npm · REST APIs

CS Foundations: Algorithms and Data Structures · Object-Oriented Programming (OOP) · Networking · Operating Systems