Bhavish Kumar

0330-2341348 | Bhavishsindhi3@gmail.com | www.linkedin.com/in/bhavish-kumar511 | github.com/bhavish511

Experience

Backend Developer @ The Coding Buzz – On Site
NestJS, NodeJS, ExpressJS, TypeScript, Databases   July 2025 – Present
- Strengthened backend systems through architectural improvements, feature development, and performance optimization.
- Built two major applications from scratch, including a **Real-time Social Media Comment Automation System** and a **Club Management & Expense Tracking System**.
- Developed a **real-time Comment Automation App** integrating Facebook, Instagram, and YouTube APIs to fetch media, process comments, and trigger automated auto-replies on live streams.
- Designed scalable APIs with session-based authentication, DM automation, and real-time streaming workflows.
- Architected a **Club Management System** with 40+ RESTful APIs, role-based access control (members/sub-members), transaction tracking, automated EOV reports, dashboard analytics, pagination, and PDF export functionalities.
- Enhanced and maintained three existing applications by fixing issues, refactoring code, and adding new functional modules.
- Worked on an existing **ERP-based system**, developing additional backend modules and improved performance.

Projects

FYP: Cotton Crop Disease Detection Web App (Multi-label CV & GenAI)
Node.js, Express.js, React.js, TensorFlow, YOLO, Scikit-learn, Docker, GitHub   Aug 2024 – May 2025
- Built a web app for uploading crop images to detect multiple diseases with confidence scores and visual overlays.
- Integrated an annotation tool with YOLO-format export to enable dataset expansion and model retraining.
- Fine-tuned 10+ CNN/YOLO models via transfer learning, achieving ∼80% mAP with XceptionNet.
- Connected Generative AI to suggest tailored pest management solutions from predictions.
- Deployed containerized services on VPS for scalable real-time inference and annotation.

Self-Hosted CI/CD Deployment on Hostinger
GitHub Actions, Ubuntu VPS, SSH, Node.js, Express.js, PM2, Docker, Apache2, PostgreSQL, Redis   Oct 2025
- Configured a self-hosted GitHub Actions runner on Hostinger VPS to automate deployments of backend services.
- Built workflows for auto-deployment via SSH and service management with PM2.
- Mapped backend to a custom subdomain with Apache2 and secured it using Let's Encrypt SSL.
- Dockerized PostgreSQL and Redis for consistent, isolated database and caching environments.
- Delivered a seamless CI/CD pipeline with faster deployments and persistent environment control.

VolunteerConnect   GITHUB
React.js, Node.js, Express.js, JWT, Bcrypt, MySQL, Sequelize   Mar 2025 – Apr 2025
- Designed and implemented the backend architecture for a volunteer management platform serving 100+ users using Node.js, Express, and Sequelize (MySQL).
- Built secure-authentication and role-based access control with JWT and Bcrypt(12) to manage volunteers, administrators.
- Developed, documented RESTful APIs consumed by a React to manage user profiles, service history, and request workflows.

Downy Shoes Wear Web App   GITHUB
React.js, Node.js, Express.js, MySQL, Handlebars, JWT, BcryptJS   Aug 2023 – Sept 2023
- Developed backend of e-commerce platform with 100+ product and secure payment processing via RESTful APIs.
- Used JWT and BcryptJS (10 salt rounds) for authentication and secure password storage, reducing breach risks.
- Implemented backend logic for an admin panel supporting inventory updates and purchase tracking.
- Utilized Handlebars for server-side rendering and smooth integration between backend data and frontend UI.

Education

FAST National University of Computer and Emerging Sciences (NUCES)   Karachi, Sindh
Bachelor of Science in Computer Science   *2021 – 2025*

Technical Skills

Languages: Java, JavaScript, TypeScript, Python, C/C++, Go
Frameworks & Libraries: React, Node.js, NestJS, Express.js, REST APIs
Backend & Auth: Stripe (Payments), JWT (Auth), BcryptJS (Hashing)
Cloud & DevOps: AWS (EC2, ECR, IAM, S3), Docker, Kubernetes, Jenkins, CI/CD
Databases & ORMs: MySQL, PostgreSQL, MongoDB, Redis, Sequelize, TypeORM, Mongoose
Developer Tools: GitHub, GitHub Actions, Bitbucket, Postman, Swagger, Linux, Trello, VS Code

Certifications

- Jenkins for Beginners – KodeKloud [**Certificate**]
- JavaScript Essentials – Coursera [**Certificate**]
- Python Toolbox – DataCamp [**Certificate**]
- Intermediate Docker – DataCamp [**Certificate**]
- Introduction to Shell – DataCamp [**Certificate**]