

Bhupendra S Hapawat

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SUMMARY

Full-stack developer specializing in the **PERN Stack (PostgreSQL, Express.js, React, Node.js)** with expertise in **TypeScript, Drizzle ORM, Better Auth, REST APIs, and scalable backend architecture**. Experienced in building role-based SaaS platforms, authentication systems, cloud-integrated applications using **Neon, Cloudinary, and AWS**, and AI-powered computer vision projects with a strong focus on performance, security, and maintainable software design.

EDUCATION

Master's in Computer Applications (MCA)

Aug 2024 – Aug 2026

Dr. APJ Abdul Kalam Technical University (AKTU) – CGPA: 7.47

- **Thesis:** Scaling backend applications, **System Design**.
- **Major Focus:** Web Development, Scaling, Cloud.

Bachelor's in Computer Applications (BCA)

Jul 2021 – Jul 2024

Chaudhary Charan Singh University (CCSU) – 72%

- **Relevant Coursework:** Backend Engineering, and Statistics.
- **Minor:** Computer Networks, Database Management, and Software Deployment.

TECHNICAL SKILLS

Languages: JavaScript, TypeScript, Python, SQL, C++

Frontend: React, Refine, Tailwind CSS, shadcn/ui, Radix UI, Vite, React Hook Form, Recharts

Backend: Node.js, Express.js, REST APIs, Better Auth, Arcjet

Database: PostgreSQL, MySQL, Drizzle ORM, Drizzle Kit, Neon

Cloud & DevOps: AWS (EC2, Lambda, S3, API Gateway), Docker, Git, Cloudinary

Tools: Zod, ESLint, PostCSS, OpenCV, TensorFlow, Keras, scikit-learn

PROFESSIONAL PROJECTS

Classroom Management System – PERN Stack [Link](#)

- Built a **full-stack PERN application** using PostgreSQL, Express.js, React, Node.js, and TypeScript with a scalable architecture inspired by Google Classroom.
- Implemented **role-based authentication** using Better Auth for Admin, Teacher, and Student workflows with secure session management.
- Designed a **relational database** with Drizzle ORM and Neon PostgreSQL, including schema migrations and type-safe queries.
- Developed a **responsive admin dashboard** using Refine, Tailwind CSS, shadcn/ui, and Recharts with CRUD operations and analytics.
- Integrated **Cloudinary, Zod, and Arcjet** while implementing class invite-code enrollment and modular REST APIs.

Drizzle ORM – Session Based Authentication Backend [Link](#)

- Built a **RESTful authentication API** using Node.js, Express.js, Drizzle ORM, and PostgreSQL.
- Implemented **session-based authentication** with signup, login, protected routes, and middleware.
- Secured credentials using **Node.js Crypto** with salted password hashing.
- Designed **UUID-based PostgreSQL schemas** with foreign keys and migrations.
- Containerized development using **Docker Compose** and environment-based configuration.

AI Face Mask Detection System [Link](#)

- Built a **real-time computer vision system** using Python, TensorFlow, MobileNetV2, and OpenCV for mask detection.
- Developed a **training and inference pipeline** with preprocessing, augmentation, Keras training, and optimized live predictions.

ADDITIONAL INFORMATION

- **Languages:** English, Hindi
- **Certifications:** AWS Educate Serverless, Microsoft Career Essentials in Software Development, Google Python Course
- **Development Practices:** Agile/Scrum, Git workflows, CI/CD familiarity, AWS CloudWatch, API Gateway, collaborative code reviews
- **Awards:** Student of the Year (2021), Head Boy (2022), Re-appointed Head Boy (2023)