

# Pannaga J A

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## Summary

**Full-stack Developer and AI/ML Enthusiast** skilled in building scalable applications, intelligent platforms, and computer vision solutions. Strong foundation in frontend and backend development, cloud computing, and problem-solving, with expertise in React, Django, PostgreSQL, and AWS. Passionate about creating impactful, user-centric solutions through innovative technology.

## Education

**B.E. in Computer Science & Engineering (AIML)**, AMC Engineering College, Bengaluru 2022 – Present

- CGPA: 8.99

**PUC in Science**, PES PU College, Shivamogga | 89% 2020 – 2022

## Experience

**Software Development Intern**, [Castlerockin Pvt Ltd – Bengaluru](#) Feb 2025 – May 2025

- Built responsive, scalable frontend with React and Tailwind, improving page load performance by **25%**.
- Integrated REST APIs with backend services, enhancing real-time data flow and reducing data latency.
- Contributed to CI/CD pipelines using GitHub Actions, cutting manual build and testing effort by **30%**.
- Performed debugging, unit testing, and API validation while collaborating in Agile workflows with peer reviews.

## Projects

**NeuroCampus – AI-driven Academic Management System** **Key Project – Ongoing**

- Developed a cloud-deployed academic management platform with role-based dashboards and an LLM-powered assistant to automate attendance, scheduling, and student–faculty workflows, reducing manual effort by **35%**.
- Integrated an intelligent chatbot for academic queries, improving turnaround time and reducing dependency on HOD/faculty intervention.
- Deployed on **AWS (EC2, S3, RDS, CloudFront, IAM)** for scalability, reliability, and secure storage.
- **Tools:** React, Vite, TypeScript, Tailwind, Django, DRF, PostgreSQL, JWT, LLM APIs, Git, AWS.

**HomeServe Pro – Service Booking Platform** **Key Project** [GitHub](#)

- Developed a multi-role home service booking platform with service provider onboarding, user bookings, scheduling, notifications, digital signatures, Stripe payments, and audit logging.
- Implemented real-time communication using **WebSockets (Django Channels)** and asynchronous task handling with **Celery + Redis** for OTP, notifications, and background workflows.
- Designed a modular REST API architecture enabling clean separation between backend micro-modules and React client.
- **Tools:** Django, DRF, Channels, Celery, Redis, PostgreSQL, React, TypeScript, Vite, Stripe API.

**PrepTrack — Aptitude Test Progress Tracker** [GitHub](#)

- Developed a full-stack aptitude preparation platform enabling users to take practice tests, track performance, and compete via leaderboards, enhancing learning engagement.
- Implemented user authentication, personalized learning roadmap, scoring system, and an AI-assisted chatbot for assistance.
- **Tools:** Node.js, Express.js, React, Vite, REST APIs, SQLite3, JavaScript.

**Mental Health Assistance System** [Github](#)

- Built an AI-based mental wellness platform with chatbot support, stress-relief music, and interactive games as Frontend Developer and UI/UX Designer, improving engagement by **30%** and securing **2nd place** at TJ Hacks.
- **Tools:** React, Tailwind, Node.js, Express.js, Firebase/MongoDB, TensorFlow, OpenAI API.

## Skills

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**Frontend:** React.js, Vite, Tailwind CSS, HTML, CSS, JavaScript, TypeScript

**Backend:** Node.js, Express.js, Django, Flask, Django REST Framework, Python, Java

**Databases:** PostgreSQL, MySQL, SQLite3, Firebase

**AI/ML & Computer Vision:** TensorFlow, OpenCV, MTCNN, dlib, Chatbot/LLM Integration

**Tools:** AWS, Git, GitHub, Stripe API, WebSockets, Celery, Redis, UI/UX Design

## Achievements

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- Achieved **Advance Track** selection in **NEC 2025**, organized by E-Cell IIT Bombay (2021)
- Designed, developed, and deployed the **NeuroCampus Academic Management System**, currently operational at AMC Engineering College (2025)
- Secured **2nd Place** in a hackathon at **T John Engineering College** for developing the “Mind Me” mental health support platform
- Participated in multiple intra-college and inter-college hackathons, focusing on full-stack and AI-assisted academic solutions

## Certifications

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- Advanced Software Engineering Job Simulation – Walmart USA (Forage) (Jan 2026)
- React Bootcamp – LetsUpgrade (Mar 2025)
- AWS Academy Cloud Foundations – Amazon Web Services (AWS) (Oct 2024)
- Android Developer Virtual Internship – Google for Developers (Sep 2024)
- AI-ML Virtual Internship – Google for Developers (Jun 2024)
- Backend Bootcamp – DevTown (Feb 2024)
- Backend Web Development Bootcamp (JavaScript, Node.js & Express) – Microsoft Learn Student Ambassador (2024)