

# Arnav Panchal

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**Summary** — Entry-level Software Engineer skilled in Java, JavaScript, Python, and system-level development, with hands-on experience in Cloud, DevOps, AI/ML, Full-Stack, and mobile app development (React Native). Experienced in building scalable applications, debugging complex issues, and contributing to end-to-end product development. Background in freelancing and Java tutoring, showcasing strong communication, problem-solving, and practical implementation skills. Adept at working in Agile/DevOps environments and committed to delivering efficient, high-quality software solutions.

## Education

**SKN Sinhgad Institute of Technology and Science, Pune**  
Bachelor of Engineering in Information Technology

**2021 – 2025**  
CGPA: 7.60

## Experience/Internship

**Varshi Tech**

**Feb 2024 – Apr 2024**

Web Developer Intern

- Built and deployed responsive UIs using **React & Tailwind CSS** for **1+ international clients**, ensuring scalability and performance.
- Integrated **3D interactive components** (Spline, Framer), increasing session time by **20%** on key pages.
- Collaborated with a **cross-functional team of 3+ developers/designers** to deliver features, resolve critical bugs, and meet deadlines.

## Projects

**SkillScope** (<https://github.com/Arnav-Panchal/SkillScope>)

**Apr 2025 – Present**

- Engineered an NLP-based skill analyzer for large unstructured text (GitHub READMEs, resumes, user input), processing over 10,000 text inputs during testing.
- Implemented TF-IDF with a curated tech taxonomy, **achieving 85%+ accuracy** in domain mapping (Frontend, Backend, AI/ML) and categorization across 5 technical domains.
- Automated GitHub profile analysis using OAuth and successfully launched the application via Vercel and Render, ensuring 99.9

**DevConnect** (<https://developers-collab-platform.vercel.app/>)

**Aug 2024 – May 2025**

- Designed a scalable developer collaboration platform featuring GitHub login and **AI-driven team suggestions**, reducing manual team formation effort by **40%**.
- Incorporated ML-based skill analysis and project recommendations, improving team matching accuracy by **25%** in pilot groups.
- Architected and implemented full-stack MERN architecture with REST APIs, supporting 100+ concurrent users and real-time data synchronization.

**CampLink** (<https://camplink.onrender.com/>)

**Jan 2024 – Mar 2024**

- Created a secure digital notice board for event and exam updates, reducing reliance on manual communication methods by **60%** across a user base of **500+ students**.
- Executed role-based access control with optimized MongoDB queries, leading to **75%** faster and secure data retrieval speeds.
- Devised and deployed efficient backend APIs using Express.js, handling an average of 300 requests per minute with high system reliability.

### Other Projects

- **WebTalk**: Built a low-latency video calling app using WebRTC + Agora SDK (**i100ms latency**) with **90%+ connection success rate**, secure signaling, and end-to-end encryption.

## Skills

|                  |   |                        |  |
|------------------|---|------------------------|--|
| <b>Languages</b> | C/C++ , Java, Python, JavaScript, TypeScript      | <b>Databases</b>       | MySQL, MongoDB, PostgreSQL, Firebase                                 |
| <b>Core CS</b>   | Data Structures & Algorithms, OOP, System Design. | <b>AI/ML</b>           | TF-IDF, NLP, Python ML, Skill Extraction                             |
| <b>Backend</b>   | Node.js, Express.js, Nest.js, REST APIs           | <b>Tools/Platforms</b> | Git, GitHub, VS Code, IntelliJ, Eclipse, STS, CI/CD (Vercel, Render) |
| <b>Frontend</b>  | HTML, CSS, Tailwind CSS, React.js, Next.js        | <b>Cloud</b>           | AWS basics (EC2, S3, Lambda)   |
| <b>Mobile</b>    | React Native                                      |                        |  |