

Arshpreet Singh Sandhu

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Portfolio Website - <https://arshssandhu.github.io/>

EDUCATION

Purdue University

Indiana

B.S in Computer Science , Minor Mathematics

Expected Graduation: May 2027

- **GPA: 3.9/4.0** | Dean's List | Honors College
- Relevant Coursework: Data Structures and Algorithms, Object Oriented Java Programming, Intro to Artificial Intelligence, Generative AI, Discrete Mathematics, Computer Architecture, Linear Algebra

EXPERIENCE

Medical Informatics Engineering

Fort Wayne, Indiana

Software Engineer Intern

May 2024 - Aug 2024

- Collaborated open source to the jQuery formbuilder project by developing 3 plugins and translating the interface into Hindi and Punjabi, improving accessibility for over 600 million native speakers.
- Pioneered development of custom controls to the FHIR questionnaire builder for measuring sickness intensity by leveraging JavaScript and Node.js to ensure smooth rendering and intuitive UI for 5000+ users.
- Spearheaded design of a plugin system using TypeScript and Node.js, allowing users to extend functionalities, reducing integration time by 60% for new users, boosting overall efficiency by 25%.
- Presented detailed documentation and authored supporting website to direct the team in creating plugins for the system, driving a 40% increase in community engagement and fostering collaborative teamwork.

PROJECTS

I-Track | *NextJS, MaterialUI, Javascript, Firebase, Git*

Jul 2024 - Aug 2024

- Developed a full-stack app to manage inventory items, adjusting cost and quantity, directing a fully responsive design using Next.js and Material UI, ensuring 100% cross-platform compatibility.
- Integrated snackbar notifications to provide instant feedback, improving experience, reducing errors by 25%.
- Leveraged Firebase for real-time database management, enabling seamless synchronization and data handling up to 10,000 inventory items providing robust backend support.

Node CLI Plugin System | *Typescript, NodeJS, NPM, CLI, Git*

Jun 2024 - Jul 2024

- Developed scalable text transformation plugin system allowing users to modify text with a single command.
- Designed a modular framework accommodating 10+ new plugins with less than 5% code changes.
- Authored a detailed plugin development tutorial and a dedicated website assisting in deploying custom plugins.

LEADERSHIP AND ACTIVITIES

Mathematics Tutor | *Purdue University*

Mar 2024 - present

- Mentored 1:1 and group sessions, designing study resources for 80+ students to support academic goals.

Indian Students Association | *Secretary*

Aug 2023 - Aug 2024

- Leader of a 400+ member community overseeing informed decisions, orchestrating religious fests, advocating inclusivity and steering social media, achieving a remarkable 60% growth in social media reach.

TECHNICAL SKILLS

- **Languages:** Java, Javascript, Python, C++, HTML, CSS, Typescript
- **Frameworks:** ReactJS, NodeJS, Material UI, NextJS, Tailwind CSS, Express, Bootstrap
- **Developer Tools:** Git, Docker, VSCode, Eclipse, Pycharm, Vercel, NPM, Firebase, Pocketbase, Bash, VM