Abhinav Pillai

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Education

University of Oklahoma — Norman, OK   **Expected Graduation: May 2026**
Bachelor of Computer Science   *GPA: 3.12*
- Courses: Software Engineering, Artificial Intelligence, Operating Systems, Computer Architecture, Data Structures and Algorithms, Database Management Systems, Data Networks

Work Experience

University of Oklahoma   **Sep 2025 – Present**
Software Engineering Undergraduate Research Assistant   *Norman, OK*
- Led and mentored **20+ students** in Software Studio by preparing learning programs and fostering professional connections, using **Next.js, TailwindCSS, Figma, and LinkedIn**

Vast Vertex Media   **Sep 2024 – Apr 2025**
Full-stack Software Engineer Intern   *Norman, OK*
- Spearheaded development on a **scalable full-stack** mobile application using **React Native/Typescript, PostgreSQL, Azure, PowerBI and REST APIs** to display educational media to users.
- Led and collaborated in weekly scrum meetings, driving **system design, feature planning, implementation, and deployment** in an **agile** environment
- Designed and built various responsive, user-friendly websites for clients using **Next.js, Tailwind CSS, Figma, and REST APIs**

University of Oklahoma   **Aug 2023 – Dec 2024**
Software Engineering Undergraduate Research Assistant   *Norman, OK*
- Developed a full-stack **Next.js/Typescript based** platform, ONEngineering, that allowed for over **400+** active OU Graduate and Alumni Engineering students connect with university contacts and industry professionals
- Crafted various **C++/Python** programs that use Handshake **RSS Feeds** to tag students and alumni records into common groups for recommendations within ONEngineering, further accelerating deployment times by **50%**

UFLIP   **Mar 2023 – Nov 2023**
Software Engineer Intern   *Oklahoma City, OK*
- Utilized **CSS, SASS, Node.js, JS, HTML, and Figma** to create an intuitive and scalable user experience
- Improved website startup times by **60%** by replacing synchronous code with **asynchronous** functions and **API calls**

Projects

CandidAi (WIP) | *Source Code*   **Next.js | TypeScript | Python/Flask | SQL/AWS**
- Developing a full-stack web app that will allow **CS Students/Alumni** to get mock interview experience with AI.
- Utilizing **Next.ts** for the user interface, **Python/Flask** for a **RESTful API** backend, and **SQL/AWS** for database

Route Runners | *Source Code* | *Blog*   **Next.js | TypeScript | Python/Flask**
- **Led the development** of a full-stack web application for **first responders**, utilizing **NextJS** and **TypeScript** for the frontend, and **Python + Flask** as the backend
- Implemented a **CI/CD pipeline** to convert drone footage into 3D models enabling **WebAR-based augmented reality** escape plans for first responders and citizens

Leadership

Hacklahoma | *Devpost*   **2022 – 2026**
- ∗ Winner for Best Use of **AI in Education 2024**

India Association of Oklahoma   **2016 – Present**
- ∗ C# Teacher at Beginner's Coding Bootcamp - 2019

Technical Skills

Languages: HTML5, CSS, JavaScript, Typescript, SQL, Python, Java, C++, C#
Developer Tools: Vercel, Postman, Power BI, MySQL, Git/Github, Azure, npm
Libraries/Frameworks: ReactJS, PostgreSQL, NextJS, NodeJS