Abhinav Pillai

• US Citizen   📞 (405) 370-5543   ✉ abhi@navpil.dev   💼 linkedin.com/in/nav-pil   ⚙ github.com/navpildev   💼 www.navpil.dev

Education

University of Oklahoma — Norman, OK   **Expected Graduation: May 2026**
Bachelor of Computer Science   *GPA: 3.12*

- Relevant Courses: Software Engineering, Artificial Intelligence, Operating Systems, Computer Architecture, Data Structures and Algorithms, Database Management Systems, Data Networks, Capstone

Work Experience

University of Oklahoma   **Sep 2025 – Present**
Software Engineering Undergraduate Research Assistant   *Norman, OK*

- Mentored **20+ students** in Software Studio by preparing learning programs and fostering professional connections
- Taught lectures on front-end design principles, end-to-end prototyping, system design, and iterative development.

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.
- 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 | *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, NOSQL, Python, Java, C++, C#
Developer Tools: Vercel, Postman, Power BI, Git/Github, Azure, npm, JSON, AWS EC2
Libraries/Frameworks: ReactJS, PostgreSQL, NextJS, NodeJS