

ABHINAV PILLAI

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Education

University of Oklahoma

Expected Graduation: May 2026

Bachelor of Computer Science

Norman, OK

- Courses: Software Engineering, Machine Learning, Operating Systems, Computer Architecture, Data Structures and Algorithms, Database Management Systems, Data Networks

Work Experience

Vast Vertex Media

Sep 2024 – Apr 2025

Full-stack Software Engineer Intern

Norman, OK

- (Subject to NDA - Only vague details can be shared)
- 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

Norman, 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

Locora (WIP)

NextJS | Spring Boot | PostgreSQL | AWS

- Developing a full-stack web/mobile app that will enhance user experiences of many **local communities/businesses**
- Utilizing **SQL/AWS** for data storage, **Spring Boot** for a **RESTful API** backend, and **ReactJS** for the user interface

Route Runners | [Source Code](#) | [Blog](#)

NextJS | TypeScript | Python/Flask

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

BenchMusic Playlist Converter AI | [Source Code](#)

Next.js | GPT | Python/Flask

- Built a Playlist Converter with personalized AI recommendations using GPT and Spotify/YouTube APIs

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++

Developer Tools: AWS, Postman, Power BI, Git/Github, Azure, npm

Libraries/Frameworks: Spring Boot, ReactJS, PostgreSQL, NextJS, NodeJS