WESLEY SUM

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EDUCATION

Virginia Tech, College of Engineering   Expected: Spring 2025
Bachelor of Science in Computer Science   *Blacksburg, Virginia*

Courses: Data Structures and Algorithm, Computer Organization, Object-Oriented Programming, Software Design and Engineering, Computer System, Mobile Software Development, Introduction to Artificial Intelligence

HIGHLIGHTS

- **Open Source Contributor:** Enhanced performance and added features to PostHog, benefiting over 100K+ users.
- **Full-Stack Intern:** Strong foundation in software engineering with hands-on industry experience.
- **Hackathon Winner:** Led a team to victory at VT Hackathon 2023, out of 600+ participants.
- **AI Hackathon Participant:** Selected for UC Berkeley's AI Hackathon, with a **10% acceptance rate**.

TECHNICAL SKILLS

Languages: Java, Python, JavaScript/TypeScript, C/C++, Kotlin

Frameworks: React, Material UI, Node.js/Express, JUnit, Django, Jetpack, LangChain

Databases & Tools: PostgreSQL, MySQL, MongoDB, Pinecone, Firebase, GitHub, Amazon Web Services

EXPERIENCE

PostHog   Remote
Open Source Contributor   *Jun 2024 - Present*
- Optimized performance by refactoring code, fixed critical bugs, and developed new features using React and TypeScript for the PostHog project with over **100K+** users, significantly improving user experience.
- Implemented a dashboard query feature that enhanced data visualization and user interaction, increasing user engagement by **20%** and leading to more informed decision-making for users.
- Led a team of 3 engineers, successfully delivering 3 key features on time, demonstrating strong leadership and communication skills, fostering a collaborative and productive work environment.

CodeDay   Remote
Software Engineer Intern   *Feb 2024 - Apr 2024*
- Enhanced user authentication for Flagsmith by implementing password validation with TypeScript, React, and Django, reducing security incidents by **15%** and improving user experience.
- Collaborated with cross-functional teams, successfully delivering high-quality code that met project specifications and deadlines.

PROJECTS

AI Agent with PDF Integration
- Developed an interactive UI with **React**, Tailwind CSS, and **TypeScript** for real-time PDF interaction.
- Engineered **RESTful** APIs via Next.js API routes and optimized for high-performance request handling.
- Utilized a in-memory vector store to cache generated embeddings for efficient retrieval.
- Integrated **OpenAI's GPT-3.5** API and **Langchain** technologies, resulting in a sophisticated AI Agent capable of document loading, splitting, storage, retrieval, and output functionalities.
- Managed user authentication with **Clerk** and handled subscriptions and payments using Stripe, providing access to premium features.

SandBox: Content Managment System
- Developed a user-friendly editor and seamless **CRUD** operations for blog posts, leveraging **Node.js**, **MongoDB** for database storage, **React** for frontend development, and **AWS** for storing cloud image.
- Implemented robust user authentication using **Bcrypt** and **JWT**, ensuring secure access to user accounts.
- Utilized **WebSocket** technology to provide instant notifications, fostering real-time interaction on the platform, and improving user engagement
- Integrated search, tag, and recommendations for enhanced content discovery and user experience.

Dev Sync: Full Stack Pair Finder App
- Implemented real-time screen sharing with GetStream API for seamless collaborative coding.
- Deployed **DrizzleORM** on **PostgreSQL** within **Docker** containers, ensuring scalable and reliable database management, which optimized performance and maintained data integrity.
- Built a responsive and performant frontend with **React**, enhancing user engagement and experience.
- Designed an intuitive, visually appealing UI with Shadcn, streamlining navigation for a seamless user experience.