Ayush Ravi Chandran he/him

ayushravicha@umass.edu | linkedin.com/in/ayush-ravichandran | github.com/espiobest | espiobest.me

EDUCATION

University of Massachusetts Amherst

Amherst, MA

Bachelor of Science in Computer Science

Expected Graduation: May 2026

Bachelor of Science in Mathematics

GPA: 3.90/4.00

- Coursework: Artificial Intelligence, Algorithms, Calculus, Linear Algebra, Scientific Computing, Statistics, Graph Theory
- Chancellor's Scholarship, Dean's International Scholarship, Dean's Honors List

EXPERIENCE

Instilt Educate Remote

Head of Technical Operations, Administrative Member

July 2022 - Present

- Leading a high-performing team of 10+, driving weekly meetings to enhance collaboration and efficiency
- Overseeing 300+ user accounts, permissions, and access control for software applications and systems
- Automated data entry and validation with Python and Google Sheets, reducing errors by 50%
- Designed tools using the Notion API to streamline new member integration, cutting onboarding time by half

Web Developer June 2022 - Present

- Engineered a REST API with Express.js and MongoDB, reducing data retrieval time by 30%
- Achieved 60% code reduction resulting in faster load times while enhancing modularity and re-usability
- Created scheduling platform using Google Calendar and Zoom APIs, automating batch schedules and saving 10+ hours weekly

Projects

RouteAble | JavaScript, NestJS, PostgreSQL, HTML/CSS, React Native, PyTorch github.com/RouteAble

November 2023

- Launched a full-stack app in 36 hours at HackUMass to enhance navigation by crowd-sourcing images of inaccessible areas
- Implemented backend database model to process and store image and location data
- Designed frontend using React Native with a fluid map UI for seamless navigation
- Deployed servers on VPS to host machine learning models for image and object similarity detection
- Won 'Best use of Github' Award sponsored by Major League Hacking for unique architecture at HackUMass
- Received 'Most Impactful' Award at the UChicago Winter Tech Showcase '24, along with a prize of \$2,000

Spotify Stats Dashboard | Next.js, React, TypeScript, Spotify API — Github

- Built a Spotify stats dashboard using Next.js, displaying real-time user listening habits from the Spotify API.
- Optimized frontend performance by leveraging efficient data-fetching strategies in Next.js, reducing load times
- Handled dynamic routing and state management in Next.js to display user-specific data efficiently

Instilt Educate Website | HTML/CSS, JavaScript, Express.js, AWS edu.instilt.com

June 2022 - Present

- Facilitating valuable partnerships, establishing connections with 10+ organizations globally
- Redesigned the website's user interface to enhance navigation and usability
- Boosted application rates and website traffic by 40% through targeted Search Engine Optimization strategies
- Automated backups and content updates, enhancing site reliability and reducing manual workload
- Implemented serverless functions with AWS Lambda to process application submissions

E-Learning Website | Python, Flask, JavaScript, CSS, PostgreSQL, Amazon S3

June 2021

- Established a WebSocket connection for live video calling, facilitating seamless collaboration between students
- Utilized Amazon API Gateway to manage and secure API requests for live collaboration features
- Integrated Amazon S3 for storing and serving user-uploaded course materials, ensuring scalability and durability of static files.
- Implemented a secure, encrypted user authentication system with PostgreSQL, ensuring data integrity

SKILLS

Languages: Python, JavaScript, TypeScript, HTML/CSS, C/C++, C#, SQL, Java, Go

Frameworks: React, Next.js, Django, FastAPI, Express.js, NestJS, React Native, Flutter, Pandas, Matplotlib, PyTorch

Developer Tools: Git, Docker, AWS, Linux, VS Code, Visual Studio, PyCharm, IntelliJ, Google Analytics