

David Nguyen

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EDUCATION

Bachelor of Science, Computer Science

Dec 2024

Arizona State University

GPA: 3.73

- **Relevant Coursework:** Data Structures & Algorithms, Principles of Programming Languages, Computer Networks, Operating Systems, Distributed Software Development, Foundations of Machine Learning

EXPERIENCE

Software Engineering Intern

Apr 2024 – Present

Ralli

Austin, TX

- Develop the Ralli mobile app using Flutter and FlutterFlow to provide a seamless user experience.
- Implement CI/CD pipelines using AWS CodePipeline and CodeBuild to automate deployment of the web application on AWS Beanstalk and EC2.
- Integrate the RunSignUp API to introduce new marathon event registration functionalities within the Ralli app.
- Develop RESTful APIs using FastAPI (Python) for integrating CRUD operations in a back-end SQL database.
- Migrate an existing user database from Firestore to PostgreSQL, improving data integrity and scalability.

AI Development Intern

July 2024 – Present

fetchrocket

Safety Harbor, FL

- Contribute to the development of an AI tool that summarises academic materials for college students.
- Utilise Pinecone for efficient vector search capabilities and MySQL for database storing purposes.
- Integrate Google Gemini and OpenAI's API platform for text summarisation of large academic documents.
- Document bugs, fixes that may affect the application's performance, improving the overall user's experience.
- Review approved tickets on Github Issues using GitFlow for efficient code reviews and changes.

Research Assistant

Jan 2024 – Apr 2024

Ira. A Fulton School of Engineering

Tempe, AZ

- Constructed a secure, privacy-preserving collaborative calendar system using MPC and PSI cryptography.
- Built a back-end infrastructure using Python (Flask) and a mobile application with Flutter to provide a user-friendly interface for the calendar availability system.

PROJECTS

AgVis | NextJS, React, D3.js, TailwindCSS, Python, Flask

Mar 2024 - Mar 2024

- Developed a visualisation tool for surplus agricultural products and nutritional categories for Merced, CA.
- Designed and implemented a responsive UI/UX experience using NextJS coupled with NextUI and AceternityUI.
- Built a robust back-end web service using Flask for Python to handle data requests and analysis.

Replay | TypeScript, Node.js, Jest, AWS S3, Redis, Next.js

Dec 2023 – Jan 2024

- Developed an automated deployment platform for React and HTML/CSS/JavaScript web applications.
- Trigger automated GitHub workflow actions, leveraging AWS S3 for storing static assets securely.
- Utilized Node.js and TypeScript for efficient back-end implementation, using Redis for instant caching.
- Employed Jest for comprehensive testing, ensuring robustness and reliability of the application.

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, TypeScript, Ruby, Golang

Tools & Frameworks: React, Next.js, Angular, Node.js, React Native, Flutter, Firebase, ASP .NET, Git

Cloud & DevOps: Amazon Web Services, Google Cloud Platform, Docker

Databases: PostgreSQL, MySQL, MongoDB, AWS S3, Firestore, Redis

EXTRACURRICULAR

Sunhacks

Feb 2024 – Present

Organizer

Tempe, AZ

- Successfully engaged with over 15 sponsors and over 300 participants, securing over \$5,000 in funding and resources
- Fostered a stronger tech community on campus, empowering collaboration among students resulting in a 15% increase in event attendance.