David Nguyen

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EDUCATION

Bachelor of Science, Computer Science   Dec 2024
Arizona State University   *GPA: 3.71*

TECHNICAL SKILLS

Languages: C++, Python, Java, JavaScript, TypeScript, Golang
Tools & Frameworks: Node.js, React, Next.js, Angular, React Native, Flutter, Firebase, ASP .NET, Git
Cloud & DevOps: Amazon Web Service, Google Cloud Platform, Docker
Databases: PostgreSQL, MySQL, MongoDB

EXPERIENCE

Software Engineering Intern   April 2024 – Present
Ralli   *Austin, TX*
- Contribute to the development of the Ralli mobile app using Flutter and FlutterFlow.
- Implement CI/CD pipelines for automated deployment of the web application on AWS Beanstalk and EC2.
- Integrate RunSignUp API to enable functionalities within the Ralli app, ensuring seamless user experience.
- Develop RESTful APIs using FastAPI framework for integrating CRUD operations in a back-end SQL database.
- Migrate an existing user database on Firestore to PostgreSQL.

Research Assistant   January 2024 – April 2024
Ira. A Fulton School of Engineering   *Tempe, AZ*
- Construct a multi-party collaborative calendar availability system using MPC and PSI cryptography.
- Build back-end infrastructure and mobile application with Python (Flask) and Flutter.
- Ensure privacy concerns whilst optimizing collaboration by implementing homomorphic encryption techniques.

Sports Program Manager   Aug 2022 – Present
Arizona State University   *Tempe, AZ*
- Supervise and coordinate development initiatives for Arizona State University's Sports Programs.
- Oversaw the scheduling and coordination of sports programs, improving participant engagement by 25%.
- Analyzed teams' performance data using MS Excel and SQL to optimize scheduling and resource allocation.

PROJECTS

DigiClips Search Engine (Capstone Project) | *JavaScript, AngularJS, AWS Lightsail*   Jan 2024 – Present
- Conducted a revamp of a Media Search Engine front-end by migrating from Angular15 to Angular16.
- Performed media analytics on remote servers with Python, ensuring quality productions.
- Leveraged AWS Lightsail for a build prensentation, ensuring scalability and reliability of the application.

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.

Reploy | *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.

EXTRACURRICULAR

Sunhacks   Feb 2024 – Present
Organizer   *Tempe, AZ*
- Managed logistics and operations, including venue booking, catering, equipment setup for an annual hackathon.
- Succesfully 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.