Ken Nguyen

nguyenkencareer@gmail.com | linkedin.com/in/ken-c-nguyen/ | github.com/kennguyen230

Professional Summary

I am a flight software engineer working on a data & displays team. I have an interest rooted in SaaS development and have a background in web, iOS, and Android development.

Skills & Technologies

React, C/C++, TypeScript, JavaScript, Python, iOS/Swift, Node.js, MongoDB, Express.js, REST APIs, Git, Linux, Bash, Figma, TailwindCSS, Tanstack, Agile, MySQL

Work Experience

Northrop Grumman   **Melbourne, FL, USA**
Associate Software Engineer   *November 2023 - Present*
- Worked on a data and displays team where development is done using C++ and Python in a Windows and Red Hat Linux environment
- Ownership over core component known as flight plan manager, functionalities include: delegation of incoming messages to various adapter classes, processing of data and updating of internal states, responding to various other subsystems
- Modified internal python scripts that translated CSV fault equations to XML to then be translated to C++ classes
- Developed and tested code that sequenced waypoints during a flight
- Spearheaded design story for a contingency plan in the event of a loss of communications between two vehicle subsystems
- Daily usage of Atlassian suite (Jira, Bitbucket, Confluence, Bamboo, Fisheye) for design, development, testing, and code reviews

Education

University of California - San Diego   **August 2022**
Bachelor's, Computer Science

Personal Projects

League Nemesis
Sole Developer
- React app displaying a user's worst matchups in the game League of Legends
- Data is stored via Mongo Atlas using a Mongoose schema
- Server-side development using Node.js with Express.js for endpoint creation
- Axios used for client-server data fetching and Tanstack for frontend routing, tables, and data management
- Frontend styled using Tailwind with ShadCN as a supplemental component library
- Figma used for UI design with an emphasis on mobile-first paradigm
- Tracking of analytics using PostHog

Explore San Diego!
Developer
- Developed an Android navigation app allowing users to queue exhibits and create custom itineraries for the San Diego Zoo
- Utilized Java and Android Studios for development, incorporating Google Maps API for user location and rerouting

Portfolio

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