

Ken Nguyen

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Skills

C/C++, React, Typescript, Javascript, Python, iOS/Swift, Node.js, MongoDB, Express.js, REST APIs, Git, Bash, Figma, MySQL, HTML/CSS

Education

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

August 2022

Professional Experience

Northrop Grumman

Melbourne, FL, USA

Associate Software Engineer

November 2023 - Present

- Working on an aircraft displays team which uses C++ and Python in a Linux environment
 - Ownership over core component known as flight plan manager that communicates with multiple subsystems to manage active and modified flight plans
 - Developed code across multiple stories to cover the end to end of activating a flight plan
 - Implemented code that captures waypoint during a flight mission
 - Overhauled internal Python scripts that translated CSV files to XML that were then translated to C++ classes
 - Spearheaded design story for loss of communications between two subsystem
 - Performed HITL & SITL integration testing to ensure functional and memory safe code
 - Usage of Google Tests for unit testing
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Personal Development

League Nemesis

Sole Developer

- Website displaying a user's worst matchup in the game League of Legends
- Server-side development using Node.js enhanced with tsx for type safety
- Express.js used for endpoints
- Data stored via Mongo Atlas using a Mongoose schema
- Frontend development using React and Typescript
- Frontend styling using Tailwind with ShadCN as a component library
- Tanstack used for frontend routing, tables, and state management
- Analytics tracked with PostHog
- Client deployed using Vercel and server deployed using Heroku

Explore San Diego!

Developer

- Android navigation app allowing users to queue exhibits and create custom itineraries for the San Diego Zoo
 - Developed done using Java and Android Studios
 - Incorporated Google Maps API for user location and rerouting
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Portfolio

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