

KEN NGUYEN

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BIO

Full stack flight software engineer creating both application and embedded software for cockpit displays. Web and mobile developer at home creating fun projects. [Link to portfolio.](#)

SKILLS & TECHNOLOGIES

C++, Typescript, Javascript, React, Node, Python, Swift, Java, Bash, Git, MySQL, MongoDB, Figma

EDUCATION

University of California - San Diego

August 2022

Bachelor's, Computer Science

PROFESSIONAL EXPERIENCE

Northrop Grumman

Software Engineer

November 2023 - Present

- Working on a modernization team that does research and development of experimental flight software features separate from baseline
- Frontend development using a proprietary graphics engine based on OpenGL and XML files, and backend development in a multi-threaded C++ environment
- Development of a new suite of classes that ingests messages from a database and displays a visualization of electronically jammed regions on the map
- Implemented a kill-chain table which displays points of interests during a flight mission, with column sorting, CRUD controls, and an on-row-select detailed view
- Previously worked on a safety-critical team developing code in a real-time operating system environment
- Design and development of a core component known as the flight plan manager that communicates with multiple different systems to manage drafted and active flight plans
- Performed hardware-in-the-loop testing to ensure features function correctly when integrated with other systems/teams

PERSONAL DEVELOPMENT

League Nemesis

- Website based on the game League of Legends that shows a user's worst match-up (aka their League Nemesis)
- Built using React + TS for the client side, Node + TS for server side APIs, and data is stored on Mongo Atlas
- Application follows a publisher/subscriber model that optimistically loads existing data on request, while processing new data to be polled for by the client in the background
- Search bar with region selector and an auto-suggest feature based off of users currently existing in the database
- Summoner page that displays user's account info and League Nemesis as well as controls that allow users to select their League Nemesis based on lanes and game type
- [Link to project](#)

SECURITY CLEARANCE

Secret (2023 - present)