Son Nguyen

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EDUCATION

- **Texas A&M University - Corpus Christi** — Corpus Christi, TX
  Bachelor of Science in Computer Science; GPA: 3.92 — *Aug. 2016 – May. 2020*

EXPERIENCE

- **Plus One Robotics** — San Antonio, TX
  Software Engineer — *Dec 2020 - Present*
  - **Yonder**: Yonder is a suite of micro software designed to provide a "Human-In-The-Loop" remote supervisory solution for robotic applications. It includes crew chiefs who are trained to swiftly address production exceptions by stepping in and executing robotic tasks from a remote location. Yonder's intelligent queue management allows one crew chief to handle multiple systems, and its multi-device, multi-user design ensures seamless use across all platforms. Yonder also provides a data dashboard that highlights business-critical KPIs, along with user-centric security standards that feature a fully encrypted cloud and on-premise network, ensuring security needs are met.
  - **Yonder Analytic**: Yonder Analytic is an Elastic application that can operate seamlessly on cloud and on-premises platforms, and it boasts the capacity to automatically scale up or down in response to varying workloads and resource needs. When the demand increases, it can manage more than a hundred robots, each with distinct metrics. Furthermore, it offers the capability to examine and exhibit customized widgets that demonstrate the robots' effectiveness and performance over time. Yonder Analytic is engineered to be exceedingly available, fault-tolerant, and resilient, which guarantees that it can operate uninterruptedly even when managing millions of requests from robots per day.
  - **AdminOne**: AdminOne is an internal web-based application that offers an internal dashboard designed explicitly for admin users to manage robots from the cloud. The dashboard provides a comprehensive overview of real-time robot states, logs, software versions, and other relevant information. Additionally, it incorporates an RBAC (Role-Based Access Control) system that empowers admin users to manage organizational and robot permissions with ease.
  - **PickOne Assistant** : PickOne Assistant is a configuration tool that allows for the rapid setup of pilot robot cells utilizing PickOne, an AI-driven vision software that provides accurate hand-eye coordination for logistics robots. The purpose of PickOne Assistant is to facilitate 80% of new deployments and streamline the process of integrating with internal software, minimizing the associated challenges.

- **Center for Academic Student Achievement (CASA)** — Corpus Christi, TX
  Math tutor — *Aug 2018 - May 2020*
  - **Responsibilities**: As a math tutor, I provide academic support to college students in calculus, linear algebra, discrete math, and geometry. I work closely with students to help them improve their understanding of mathematical concepts, complete assignments, and prepare for exams. I create a positive and supportive learning environment, adapting to students' individual needs and learning styles.

PROJECTS

- **Gotcha**: A microservice application that uses Kafka to distribute data from backend systems to the web services.
- **Snippetbox**: Snippetbox - GitHub gists alike - is a simple way to share snippets and pastes of code with others. It allows users to create and share single files, parts of files, or full applications.
- **Hulix**: Web based streaming movies application based on The MovieDB APIs.

PROGRAMMING SKILLS

- **Languages**: TypeScript, JavaScript, Golang, SQL, Bash, HTML5, CSS3
- **Technologies**: Google Cloud Platform, Kubernetes, Docker, Docker-compose, CI/CD, NodeJS, Kafka, WebSocket, ROS (Robot Operation System), Redis, Elastic, GraphQL
- **Skills**: Agile, Teamwork, System Design, Microservices design, RESTful APIs design, Unit testing
- **Frameworks/ Libraries**: ReactJS, NextJS, Apollo GraphQL, Material UI, TailwindCSS, PixiJS, Jest, RxJS
- **Databases**: PostgresQL, MongoDB
- **OS**: Linux, Windows, MacOS
- **Tools**: VSCodes, Neovim, Git, GitHub, GitLab, Figma