Khanh Nguyen

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Employment

Bachelor of Science in Computer Science, Minor in Mathematics   *Expected Dec 2025*
- University of Houston - Houston, TX
- GPA: 3.19
- Relevant Coursework: Software Design, Databases, Game Development, Computer Architecture, Programming Fundamentals

Associate of Science in Computer Science   *Graduated May 2023*
- San Jacinto College - Houston, TX

Technical Skills

Languages	Python, JavaScript, Java, C/C++, C, SQL, HTML/CSS, R, TypeScript
Frameworks/Libraries	React, Bootstrap, Node.js, Material-UI, RapidAPI, Express, EJS, PyTorch, NumPy, JWT, Three.js, Flask
Developer Tools	VS Code, PostgreSQL, Arduino IDE, Linux, Git, GitHub, Docker, Microsoft 365, R Studio, Adobe Cloud
Other	Bilingual, OSHA Forklift Operation, Embedded Systems Programming, Soldering, CAD, 3D Printing

Certifications

GE Aerospace, Explore Digital Technology Job Simulation - Forage   *July 2024*

J.P. Morgan, Software Engineering Job Simulation - Forage   *June 2024*

Projects

Underwater ROV   *May 2024 - Present*
Arduino IDE, Robotics, Data Collection, Video Analysis
- Constructed an underwater ROV using **Arduino**, applying **embedded programming** to integrate sensors and manage data acquisition, and soldered custom electronic circuits to support the system
- Collected video footage and data on aquatic habitats, species, and water conditions, using the ROV for environmental research

NASA TCC Wearable Tech Project   *Feb 2024 - April 2024*
React.js, Python, Raspberry Pi, Oura API, MongoDB, Flask
- Led a team of 4 in NASA's TCC Wearables Challenge, to develop a wearable device for health tracking among Navy soldiers
- Programmed a **Raspberry Pi** with **Python**, utilizing **Oura API** to monitor and record physiological data from the Oura Ring, tracking metrics for **over 50** simulated soldiers
- Developed a data visualization app with **Flask**, **React,js**, and **MongoDB**, enhancing data accuracy and accessibility

Tindeggle (Online Dating App)   *Dec 2023 - Jan 2024*
PostgreSQL, Express.js, React.js, Node.js (PERN Stack), Docker, Postman, JWT, Frontend, Agile/Scrum
- Created *Tindeggle* with video chat functionality using Docker and **PERN** stack, facilitating real-time interactions for **20+** users
- Implemented user login and email verification features with React.js, Bootstrap, and JWT for secure token-based authentication

BitesNBytes (Database Food Order App)   *Oct 2023 - Nov 2023*
HTML, CSS, Bootstrap, Express.js, EJS, Node.js, PostgreSQL, Software Testing, Backend Services, Full-Stack
- Led a team of 3 to develop a responsive website using HTML, CSS, and Bootstrap
- Developed backend with **Express.js** and **Node.js**, using **PostgreSQL** for data management, and **EJS** for server-side rendering

CrewTube (YouTube Clone)   *Aug 2023 - Aug 2023*
React.js, Material-UI, RapidAPI (YouTube v3), Responsive Design, API Integration, Video Data Processing
- Created a responsive YouTube clone using React.js for dynamic UI components, **Material-UI** for design consistency
- Demonstrated API integration skills by consuming **RapidAPI** (YouTube v3) endpoints to fetch and display video data, processing metadata for over **50,000+** videos across 16 categories using JSON and WebSockets for real-time updates

Leadership

Event Organizer - *Houston Robotics Group*   *July 2024 - Present*
- Collaborating with a team of 24 student ambassadors to promote opportunities at the Ion Houston to the student community
- Assisted **over 15** individuals with **soldering, 3D printing, laser cutting, CAD,** and **embedded systems programming**, providing guidance and support to enhance their learning experience as an intro to robotics

Vice President External - *Code Coogs*   *May 2024 - Dec 2024*
- Established corporate connections with various CS student organizations and hosted **5+** industry guest lectures and workshops
- Facilitated club events, workshops, and activities aimed at engaging a diverse membership of **1,000+** UH students

Employment

Student Director - *University of Houston, Natural Sciences & Mathematics Career Center*   *Nov 2023 - Present*
- Led the Career Outreach Squad's efforts to foster recruiter connections and bring **60+** industries to campus
- Created digital assets on Figma and Canva to boost marketing for the Career Center, reaching **6,000+** NSM students at UH