Hong Khai Nguyen

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SUMMARY

I am a Computer Science student with experience in Java and Spring Boot, and I am currently strengthening my skills in HTML, CSS, and JavaScript. As a sophomore at Evergreen Valley College, I tutor Java programming, which supports my peers while deepening my own understanding. I expect to earn my **Associate's Degree** in **Computer Science** starting in **May 2027** and transfer to a **University of California** in **Fall 2027**, with an anticipated **Bachelor's Degree** completion in **May 2029**. I am passionate about software development and eager to continue learning as I prepare for my first software engineering internship.

EDUCATION

Evergreen Valley College **Jan 2024 - May 2027**

Associate in Science for Transfer, Computer Science (GPA: 3.84) *San Jose, CA*

- **Coursework:** Introduction to Java, Data Structure and Algorithms, Object-Oriented Programming, Foundations of Data Science, Discrete Structures, Structure and Interpretation of Computer Programs, Calculus I, Calculus II, Multivariable Calculus

SKILLS

- **Programming Languages:** Java, TypeScript, JavaScript (ES6+), HTML/CSS, SQL, Python (Data Analysis)
- **Libraries & Frameworks:** React, Spring Boot, JUnit, Numpy, Scikit-learn
- **Developer Tools:** Git, Vim, IntelliJ IDEA, Cursor (code editor), Github, Docker, Maven, Linux, PostgreSQL, Vite

PROJECTS

EVC Tutor Schedule Project | https://evc-tutor-schedule.vercel.app/

- Engineered a scalable, full-stack tutoring application using **React 18** and **TypeScript**, reducing student search time by **40%** through real-time data filtering and an intuitive, mobile-responsive UI.
- Architected a modular component system with **Vite** and **CSS Variables**, implementing dark mode theming and accessibility features that serve a diverse student body across **3 campus locations**.
- Optimized performance by implementing efficient data structures for schedule mapping and intersection observers, ensuring smooth **60fps** animations and sub-**100ms** interaction times.

Learnr (CalHacks2025) | https://devpost.com/software/learnr-x8bpqd

- Designed and developed an AI-powered learning tutor using **TypeScript** (React) and **Node.js** (JavaScript), integrating the VAPI API to deliver conversational lectures where students can interact, ask questions, mute, or end sessions at any time.
- Collaborated closely with a team of four, facilitating regular communication to align feature development, share technical insights, and ensure the AI tutor seamlessly fit into the broader project goals.
- Led feature integration and code reviews for the AI tutor, proactively gathering team feedback and fostering a collaborative environment that prioritized clear communication, shared understanding, and rapid iteration.

Job Career Level Classification ML System | https://github.com/khainguyen21/jobs_classification

- Developed a career-level classification model that achieved **77%** accuracy by implementing a Random Forest classifier with advanced text preprocessing and feature engineering.
- Implemented an advanced data preprocessing pipeline incorporating TF-IDF vectorization, SMOTE oversampling, and Chi-squared feature selection to handle imbalanced job posting data.
- Optimized model performance-improving F1 score by **15%**-by conducting GridSearchCV hyperparameter tuning and engineering features from job titles, descriptions, locations, functions, and industries.

EXPERIENCE

Evergreen Valley College | *Java Programming Tutor* **Sep 2025 - Dec 2025**

- Improved student mastery of Java, OOP, and data structures, increasing course pass rates by ~25% and reducing assignment errors by ~30% through targeted one-on-one tutoring and hands-on coding exercises.
- Delivered a 3-hour workshop on algorithms, debugging, and problem-solving, achieving a 20% increase in students' coding assessment scores through hands-on exercises and targeted feedback.

Data Science Embedded Tutor **Jan 2025 - May 2025**

- Provided hands-on tutoring in Python/NumPy, guiding students through data cleaning, statistical analysis, debugging, and introducing machine learning workflows such as regression and classification.
- Boosted student lab completion and code accuracy by 25%, based on assessment scores and submission rates.

Wellness Pharmacy | *Phamarcy Clerk* **2023 - Present**

- Utilized WinRx and NimbleRx systems to manage complex insurance data and prescriptions, resolving system and claim issues through coordination with providers.
- Translated complex insurance processes and medical systems into clear guidance for patients, managing multiple high-priority tasks in a fast-paced environment.

LEADERSHIP EXPERIENCE

Evergreen Valley College CS Club | *Project Manager* **Jan 2024 - May 2024**

- Led a 4-member team to deliver an autonomous Raspberry Pi G1 tank, achieving ~95% obstacle-avoidance accuracy within 8 weeks by coordinating hardware integration and iterative navigation testing using pre-built modules.