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 building my skills in HTML, CSS, and JavaScript. As a sophomore at Evergreen Valley College, I tutor Java programming, which helps both my classmates and my own understanding. I will earn my **Associate's Degree** in **Computer Science** in **May 2027** and plan to transfer to a **UC** starting in **Fall 2027** to work toward a **Bachelor's Degree** in Computer Science. I am passionate about software development and eager to learn as I prepare for my first software engineering internship.

EDUCATION

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

Associate in Science for Transfer, Computer Science *San Jose, CA*

- **GPA:** 3.82
- **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, HTML/CSS, SQL, Python (Data Analysis)
- **Libraries & Frameworks**: Spring Boot, JUnit, Numpy, Scikit-learn
- **Developer Tools**: IntelliJ IDEA, Git, Cursor (code editor), Vim, Github, Docker, Maven, Linux, PostgreSQL

PROJECTS

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.

Simple Bank App | https://github.com/khainguyen21/simple_bank_app

- Developed a full-stack Java desktop banking application implementing secure user authentication and account management using Java Swing for the GUI and MySQL/JDBC for database operations.
- Architected a robust database system using MySQL to handle user accounts, transaction history, and balance management with features including deposits, withdrawals, and inter-account transfers.
- Implemented a modular and maintainable codebase utilizing object-oriented programming (OOP) principles with Java, featuring abstract classes for GUI components and dedicated database interaction layers.

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 *San Jose, CA* · **Sep 2025 - Present**

- 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 *San Jose, CA* · **Feb 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.

LEADERSHIP EXPERIENCE

Evergreen Valley College CS Club **Jan 2024 - May 2024**

Project Manager

- 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.