

# Hong K. Nguyen

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## TECHNICAL SKILLS

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**Languages:** Java, SQL, Python

**Frameworks & Libraries:** Spring Boot, NumPy, Scikit-learn, JUnit

**Developer Tools:** IntelliJ IDEA, Git, Github, Docker, Maven, Linux, Vim, PostgreSQL

## EDUCATION

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**Evergreen Valley College**

Expected Transfer: May 2027

*Associate's Computer Science*

**GPA: 3.76**

- **Expected Transfer to B.S. in Computer Science:** Fall 2027
- **Related Coursework:** Introduction to Java, Data Structure and Algorithms, Object-Oriented Programming, Foundations of Data Science, Discrete Structures, Structure and Interpretation of Computer Programs

## EXPERIENCE

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**Java Programming Tutor (Part-time)**

Aug 2025 – Present

*Evergreen Valley College*

*San Jose, CA*

- Collaborated with students on Java, OOP, and data structures, reinforcing core software engineering skills.
- Worked closely with peers to debug algorithms and improve problem-solving efficiency.
- Mentored students by preparing them for advanced CS coursework and exams.

**Data Science Embedded Tutor (Part-time)**

Jan 2025 – May 2025

*Evergreen Valley College*

*San Jose, CA*

- Guided students in Python and NumPy for data cleaning and transformation, emphasizing teamwork and collaboration.
- Facilitated in-class activities as an embedded tutor, reinforcing visualization, inference, and analysis concepts.
- Assisted with debugging code, optimizing scripts, and understanding data science workflows.

**Project Manager (Part-time)**

Jan 2024 – May 2024

*EVC Computer Science Club*

*San Jose, CA*

- Led and collaborated with a 4-member team to design and assemble a Raspberry Pi G1 Tank, applying robotics and hardware integration.
- Took ownership of project planning, feature implementation, and code reviews.
- Coordinated navigation and obstacle detection features, ensuring efficient teamwork and successful delivery.

## PROJECTS

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**Simple Bank App** | *Java, Java Swing, MySQL, JDBC*

- Collaborated with peers to design and implement a full-stack Java banking application with secure user authentication and account management.
- Architected a robust MySQL database to manage accounts, transactions, and balances (deposits, withdrawals, transfers).
- Took ownership of feature development from design to deployment, ensuring modular, object-oriented code using abstract GUI components and database layers.

**Simple Weather App** | *Java, Java Swing, JSON.simple, REST APIs*

- Developed a Java-based weather app with real-time data from Open-Meteo APIs, providing a user-friendly GUI.
- Solved complex data parsing challenges with HttpURLConnection and JSON handling for weather conditions, geolocation, and time zone data.
- Worked closely with team members to optimize for efficiency, scalability, and maintain a clean separation of GUI and backend.

**Job Career Level Classification ML System** | *Python, NumPy, Scikit-learn, Pandas*

- Built a machine learning system achieving 77% accuracy using Random Forest, applying TF-IDF vectorization and feature engineering
- Solved challenges with imbalanced datasets using SMOTE and Chi-squared feature selection, improving classification fairness.
- Led model optimization efforts with GridSearchCV hyperparameter tuning and feature engineering across multiple job-related fields.