Hong K. Nguyen

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EDUCATION

Evergreen Valley College   Expected Graduation May 2027
Associate's Computer Science   *San Jose, CA*
- **Related Coursework:** Introduction to Java, Data Structure and Algorithms, Object-Oriented Programming

TECHNICAL SKILLS

Languages: Java, Python, SQL
Frameworks & Libraries: JUnit, Spring Boot, NumPy, Scikit-learn
Developer Tools: IntelliJ IDEA, Git, GitHub, Docker, Maven

PROJECTS

Simple Bank App | *Java, Java Swing, MySQL, JDBC*
- 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 principles with Java, featuring abstract classes for GUI components and dedicated database interaction layers.

Simple Weather App | *Java, Java Swing, JSON.simple, REST APIs*
- Developed a Java-based weather application with a user-friendly Swing GUI interface, implementing real-time weather data retrieval through RESTful API integration with Open-Meteo services.
- Engineered robust API communication systems using HttpURLConnection, incorporating JSON parsing for handling complex weather data structures, including temperature, humidity, wind speed, and weather conditions.
- Implemented sophisticated data processing features including geolocation services, time zone handling using LocalDateTime, and dynamic unit conversion (Celsius/Fahrenheit), while maintaining clean architecture with separate GUI and backend components.

Job Career Level Classification ML System | *Python, Pandas, Scikit-learn, NumPy*
- Developed a career-level classification model, achieving 77% accuracy using a Random Forest classifier with sophisticated text processing and feature engineering techniques.
- Implemented advanced data preprocessing pipeline incorporating TF-IDF vectorization, SMOTE oversampling, and Chi-squared feature selection to handle imbalanced job posting data.
- Optimized model performance through GridSearchCV hyperparameter tuning and engineered features from multiple data fields (job titles, descriptions, locations, functions, and industries).

EXPERIENCE

Programming Tutor (Python & Data Science) (Part-time)   Jan 2025 – May 2025
Evergreen Valley College   *San Jose, CA*
- Guided students in Python and NumPy for data cleaning and transformation.
- Supported execution of Matplotlib visualizations to explore datasets.
- 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 a robotics project using a Raspberry Pi G1 Tank, learning the fundamentals of robotics and assembly.
- Implemented obstacle detection and navigation features using pre-built components and features.

Pharmacy Clerk/Pharmacy Data Systems Assistant (Part-time)   Sep. 2023 – Present
Wellness Pharmacy   *Los Gatos, CA*
- Utilized WinRx and NimbleRx systems to process patient prescriptions, insurance data, verify coverage, and identify cost-saving options through price comparisons and online coupons.
- Resolved claims and system issues by coordinating with insurance providers and internal staff, demonstrating troubleshooting skills and effective technical communication.
- Delivered clear guidance to patients and collaborated with pharmacists and managers, translating complex systems or insurance processes while managing multiple tasks in a fast-paced environment.