

# Anh Pham

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## SUMMARY

Driven Computer Science undergraduate with strong foundations in data structures, algorithms, and object-oriented programming. Experienced in C++, Python, and SQL with hands-on work building databases, analytical tools, and interactive applications. Proven ability to analyze complex datasets, produce actionable insights, and communicate technical concepts clearly. Seeking opportunities to contribute analytical skills, programming expertise, and problem-solving abilities in a professional environment.

## EDUCATION

### California State University, Long Beach

*Bachelor of Science, Computer Science*

1/2022-12/2025

- GPA: 4.0

### Orange Coast College

*Associate of Science, Computer Science*

1/2019-12/2021

- GPA: 4.0

## WORK EXPERIENCE

### Instructional Student Assistant – Computer Science Tutor

*College of Engineering Tutoring Center, CSULB*

9/2025 - 12/2025

- Tutor students in core CS courses, supporting concepts in programming, algorithms, and data structures.
- Lead one-on-one and group sessions to reinforce course material and guide students through debugging and problem-solving using C++ and Python.
- Coordinate tutoring logistics and communication through Canvas and BeachConnect. Maintained accurate records of tutoring hours and student attendance.
- Developed supplemental learning materials such as practice problems, review guides, and example code snippets.
- Assisted professors by monitoring student progress and reporting common problem areas.
- Explained debugging techniques and guided students to think through logic errors independently.
- Supported lab sessions by helping students set up development environments (VS Code, Linux, compilers).
- Helped students prepare for exams by hosting mini-review sessions and walkthroughs.
- Provided feedback on student assignments to improve code quality, readability, and efficiency.

### Volunteer – Data & Records Assistant

*Nhan Hoa Clinic, Garden Grove, CA*

6/2025-8/2025

- Digitized and organized patient documents, performing accurate data entry and verification to maintain clean medical records in a private local health clinic.
- Set up and streamline the clinic's data-entry workflow by identifying repetitive tasks and proposing improvements.
- Identified incomplete or inconsistent records and supported staff in resolving data discrepancies.
- Ensured data quality by cross-referencing patient information across multiple systems.
- Assisted staff during weekly audits to confirm accuracy and completeness of medical documentation.
- Handled sensitive patient information in compliance with privacy and confidentiality standards.
- Provided front-desk support during peak hours, directing patients or answering routine questions.

### Technical Assistant

*Quinn of Events, Stanton, CA*

2/2023-8/2025

- Assist the CEO of a small event company with various technical tasks to ensure event operations success.
- Managed event data using Excel and Google Sheets, including guest lists, RSVPs, timelines, and vendor information.
- Developed digital forms (Google Forms/Typeform) to automate client intake and reduce manual data entry.
- Created simple dashboards to track budgets, tasks, and event progress.
- Supported website updates, online portfolios, and content organization.

## PROJECTS

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### ConcertHub

11/2024

- Designed and populated a PostgreSQL database for concerts and ticket sales, using Excel/CSV import pipelines to integrate real-world venue, artist, and ticketing data.
- Wrote stored procedures and optimized SQL queries for better performance on large datasets.
- Built automated scripts to validate input files before insertion into the database.
- Built advanced SQL queries to analyze attendance trends, revenue patterns, and user purchase behavior, exporting results to Excel for dashboards and visual reporting.
- Delivered a functional analytical system that generates actionable insights used for event performance evaluation and data-driven decision-making.

### Pilot Eye-Tracking Data Analysis and Visualization

11/2025

(Dataset from Boeing-affiliated aviation research)

- Analyzed and visualized eye-tracking data from 39 pilots performing simulated instrument landings to identify behavioral differences between successful and unsuccessful approaches.
- Cleaned and transformed raw sensor data to prepare for analysis.
- Applied statistical and visual analytics using Python and D3.js to uncover attention distribution patterns and performance insights for aviation safety research.
- Built interactive visualizations to help aviation researchers review pilot behavior frame by frame.

## TECHNICAL SKILLS

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- **Topic of Interest:** Machine Learning, Data Science, Application Development
- **Programming Languages:** C++ (Advanced), Python (Intermediate), SQL (Intermediate)
- **Databases:** PostgreSQL, SQL Query Optimization
- **Data Tools:** NumPy, Pandas, Excel, PostgreSQL, Matlab
- **Tools & Technologies:** Git, Linux, OpenSSL, Jira, Jupyter Notebook, Bash, Docker
- **Software Skills:** Object-Oriented Programming, Debugging, Peer Review, Unit Testing, Version Control, Agile
- **Operating Systems:** Linux/Unix shell commands, Ubuntu environment setup, Windows PowerShell basics, Android
- **Security & Networking**

## RELEVANT COURSEWORKS

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- Data Structures & Algorithms
- Database Fundamentals / Database Management Systems
- Machine Learning
- Data Visualization
- Introduction to Artificial Intelligence
- Statistics & Probability for Engineers
- Discrete Structures
- Software Engineering
- Operating Systems
- Computer Architecture & Organization
- Algorithm Design & Analysis
- Programming Languages / Principles of Programming
- Introduction to Data Science
- Linear Algebra

## ADDITIONAL SKILLS

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- Soft Skills: Problem-solving, Team Collaboration, Communication, Peer mentoring, Attention to detail
- Vietnamese (Native), English (Professional Working Proficiency)