Vinh Pham

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EDUCATION

Arizona State University, Tempe, AZ *Expected May 2027*
B.S. Computer Science (Software Engineering)
Minor in Business **3.87 GPA**

RELEVENT COURSEWORK

Data Wrangling & Analysis | Data Structures and Algorithms | Intro to Software Engineering | Information Assurance | Digital Design

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, Python, C++, SQL, MATLAB
Data Analysis: Pandas, NumPy, Statistical Modeling
Front-End: HTML, CSS, React.JS, Tailwind
Tools, Databases, and OS: Git, GitHub, Windows, Linux, Word, Excel, API Integration, Firebase

PROJECTS

NFL Stats Predictor — Personal Project *Sep* 2025

- Developing predictive models using **Python and Pandas** to analyze NFL player/team performance data.
- Implementing data preprocessing and statistical analysis on **1000+ data points** per season.
- Building machine learning algorithms to forecast game outcomes and player statistics.

Chef Claude Web App — Personal Project *Jul* 2025

- Developed a **React.js** web app that generated 200+ AI-powered recipes through real-time integration with the **Claude API.**
- Implemented **Firebase** for backend services, supporting **50+ test users** with real-time database storage and user authentication.
- Deployed via **Firebase Hosting**, enabling seamless access and scalability.
- Built with **modular architecture** and styled using custom CSS + Google Fonts for a professional UI.

Lead Tracker App — Personal Project *Jul* 2025

- Built a web app to save and manage 100+ URLs for lead tracking, improving efficiency in storing and retrieving links
- Implemented localStorage for persistent data management, enabling 100% data retention across browser sessions.
- Designed an intuitive UI with HTML, CSS, and JavaScript, allowing users to add, delete, and export links with a single click

Graph Algorithms Traverser — Class Project *Apr* 2025

- Led a **team of 3** to implement Vertex, Edge, and Graph classes in **C++** modeling graphs with **50+ nodes and 100+ edges**.
- Built **Dijkstra's, Prim's, and Kruskal's** algorithms, achieving **O(E log V)** runtime for large graphs.
- Applied OOP and efficient data structures (heaps, adjacency lists), improving performance by **40%** over naive methods.
- Validated results with **20+ unit tests and 5 simulations**, ensuring accuracy and reliability.

Autonomous Vehicle Spyn — Class Project *Aug* 2024

- Led a **team of 4** to design and program self-driving Lego car using **MATLAB**.
- Implemented **distance sensors** to detect obstacles, enabling the car to stop and turn dynamically when approaching walls.
- Programmed **color recognition** to simulate traffic light responses and designed a **pickup/drop-off mechanism** for passenger simulation.

WORK EXPERIENCE

Sang — Field Marketing Associate *Jul* 2024 **–** *Present*

- Analyzed sales data across **30+ retail locations** to identify high-performing stores and optimize marketing strategies.
- Attended **8+ trade shows** to pitch the product, secure partnerships, and expand investor interest.
- Engaged with **500+ customers and retail partners**, driving brand awareness and **boosting sales by 30% across Arizona**.

Arizona State University — Community Assistant *Aug 2025 – Present*

- Managed **dozens** of maintenance requests weekly using StarRez housing software, ensuring accuracy and timely follow-up
- Supported a residential community of **1000+ students**, serving as the first point of contact for concerns and resolving issues with efficiency.
- Designed and facilitated **5+ community programs** to increase engagement, promote wellness, and strengthen collaboration among residents.

EXTRACURRICULAR EXPERIENCE

Alpha Kappa Psi Business Fraternity *Sep 2025 - Present*
Software Development Association *Aug 2024 - Present*

- Attended **20+ workshops and meetings** to enhance skills in software engineering, web development, and emerging technologies.
- Achieved **1st place** in multiple coding workshops/competitions, demonstrating technical proficiency and problem-solving under time constraints