

# Phuc Tran

(512) 998-0038 | phuctran@stanford.edu

## Education

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**Stanford University**, Stanford, CA Aug 2020 – Jun 2024  
*Bachelor of Science, Major in Computer Science - Computer Systems* GPA: **3.726 / 4.0**  
**Awards:** Leland Scholar, Michael & Susan Dell Scholar, Questbridge National College Match Finalist  
**Relevant Coursework:** Compilers, Introduction to Computer Networking, Computer Organization and Systems, Computer and Network Security, Design and Analysis of Algorithms, Web Programming

## Experience

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**Intel Corporation** Austin, TX  
CPU Verification Intern – Software focus Jun 2022 – Jan 2023

- Developed a data parsing tool in Python that allowed for quick retrieval of line items in error log and hierarchical organization of data, increasing team's efficiency by 20%.
- Designed and implemented a frontend for tool using Tkinter allowing for more universal and user-friendly use of tool.
- Quantified tests using various parameters to optimize for time and effectiveness.

**Stanford Human-Computer Interaction Group** Stanford, CA  
Undergraduate Research Assistant Jan 2022 – Jun 2022

- Conducted an experiment to observe the mirroring and amplification of GPT-3 using semantic analysis tools, OpenAI's API, and Python (Numpy, Pandas)

## Projects

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**Classroom Object Orientated Language (COOL) Compiler** Apr 2023 – Jun 2023

- Implemented the lexer, parser, semantic analyzer, and code generator modules using C++, Flex, Bison, and MIPS assembly ensuring accurate translation of the COOL language.
- Integrated error handling mechanisms, contributing to improved code quality and developer experience.

**Network Stack Infrastructure** Apr 2023 – Jun 2023

- Developed a scalable network stack infrastructure with bytestream, TCP, network interface, and routing components (ARP) using C++.
- Components was built on OOP principles and data structures such as strings, bitmaps, queues, maps, and trie.

**Movie Recommendation Chat Bot** Feb 2023 – Mar 2023

- Designed and developed a conversational recommender system that generates movie recommendations based on the user's feedback using Item-Item collaborative filtering.
- Extended the chat bot to remove semantic and conversational ambiguities and capture movie titles without quotation marks.

## Leadership & Activities

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**Stanford Vietnamese Student Association - Public Service, Public Relations** Sep 2020 – Present  
**Women in Computer Science - Fellow, Tutor** Sep 2020 – Present

## Skills

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**Languages:** C/C++, Python, C#, HTML/CSS, JavaScript

**Developer Tools:** NodeJS, MongoDB, Git, Linux/Unix Environments