

# Jonathan Trans

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## EDUCATION

### University of California, Davis

Davis, CA

Undergraduate - Bachelor's of Science (B.S) in Computer Science

Graduation Date: June 2023

- Cumulative GPA: 3.52 | Davis Computer Science Club Member
- **Notable Coursework:** Discrete Math, Introduction to Programming in Python, Data Structures in Python, Programming & Problem Solving in C, Software Development & Object-Oriented Programming in C++, Data Structures, Algorithms, & Programming in C++, Computer Organization & Machine-Dependent Programming in x86 Assembly in C, Linear Algebra

## TECHNICAL SKILLS

**Languages:** C++ Python C C# JavaScript Java Objective-C Bash Scripting MATLAB PHP

**Frameworks:** HTML/CSS Django

**Databases | Tools:** UNIX/Linux Unity Git/GitHub Vim React.js MySQL XML LaTeX

## SOFTWARE PROJECTS

### Personal Website

Davis, CA

CSS, HTML, and JavaScript | [jonathantrans.github.io](https://jonathantrans.github.io)

March 2021 - Present

- Built web applications in an agile and iterative way using **Git/GitHub**
- Developed my personal website through **HTML** for structure and markup, **CSS** inclusion for the layout and appearance of the content, and **JavaScript** for enabled animation, adaptive content, and form validation on the page

### SacHacks Hackathon - Mask Or Die Game Development

Sacramento, CA [Remote]

C# for OOP Programming | **Unity3D**

February 2021 - February 2021

- Developed **Unity 3-D Models** with **Blender** and animated them with **C#**; created a **circuit diagram** for immersive mask
- Utilized **Google Maps SDK** to import the map of Sacramento into the game, build the streets and 3-D model of Sacramento
- Leading game development alongside three random group members and created a first-person, mask shooting game as a non-profit PPE for the Sacramento community in order to raise awareness of **COVID-19** cases

### Creating Chess

Davis, CA

Linux Environment in C++ language | **SFML**

November 2020 - January 2021

- Exhibited ownership of my work with well-organized, detailed code with strong written skills
- Developed a playable Chess match in **C++**, through the GUI of **SFML**
- Added improvements such as challenging AI through simple algorithms; change of pawn type when reaching the enemy side

### PYR Resource Pack

Patterson, CA

Java Developer Kit | **Forge** | **Paint.NET** | [www.youtube.com/c/pyrwin](https://www.youtube.com/c/pyrwin)

June 2015 - Present

- Utilized **Minecraft's Java** source code, developed new lightmaps and designed 200+ new textures; **150,000+ downloads**

## WORK & LEADERSHIP EXPERIENCE

### Web Development Intern

Davis, CA

UC Davis

April 2021 - Present

- Currently working under **UC Davis Professor Ali A. Dad-del**
- Restructuring MAT22AL (Linear Algebra Computer Laboratory) coursework website through front-end development tools including **PreTeXt**, **XML**, **LaTeX**, **HTML**, **CSS**, and **Python**
- Built web applications in an agile and iterative way using **agile methodologies** and **Git/GitHub**

### Python Code Camp Instructor

San Jose, CA

Volunteer Coding Instructor for Catholic Community

July 2018 - Present

- Taught data structures, functions, classes, simple statements, arithmetic, and boolean expressions, assignment statements
- Utilized an efficient training course for students with, and without, coding experience through **K-12** grade levels
- Formulated ideas and strategies to Catholic Youth Group members on how to provide an operating system with **Python** programming capabilities for students to use

### IT Customer Support Representative Intern

San Jose, CA

A Plus Heating and Air Conditioning

June 2017 - December 2019

- Generated financial reports in **Quickbook** and performed financial analysis on sales by product and inventory orders, as well as installed anti-virus programs, custom fonts, and updates to reduce cyber risk
- Performed an **OS re-installation** of Windows 7 and putting together orders with support package or installers and presentation packages for management
- Troubleshooted and resolved slow computer issues by uninstalling hazardous bloatware and other unwanted programs and other Adhoc projects; motivated and passionate to find defects and innovate the product