

Christian Tumandao

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SKILLS

Languages: Java, Javascript, Typescript, HTML/CSS, Python, Unix, R

Frameworks: React.js, Express.js, Spring Boot

Technologies: Git, Node.js, AWS RDS & S3, Firebase, REST API

Data: Numpy, Pandas, Matplotlib, Seaborn, ggplot2

EDUCATION

University of Pittsburgh

Pittsburgh, PA

B.S. Computational Biology

GPA: 3.7

Minors: Chemistry and Economics

PROJECTS

Communal | *ReactJS, ExpressJS, Firebase*

A functional, mock social media platform that allows users to create communities to post events, listings, posts, and comments.

Chess Opening Flashcards | *ReactJS, Firebase*

A web application that explores chess openings, interactively tests users, and keeps track of their accuracy.

Petri Dish Simulator | *HTML5, Javascript, Github Pages*

An implementation of Craig Renolds boid algorithm to simulate microbes in a petri dish with adjustable crowd behaviors.

EXPERIENCE

Freelance Web Developer

New York City, NY

Freelance

Aug 2023 – Present

- Developed a series of websites using Javascript, React.js, HTML/CSS
- Contributed to clients' WordPress sites and blogs.

Koes Lab, University of Pittsburgh School of Medicine

Pittsburgh, PA

Undergraduate Researcher

Jan 2021 – May 2022

- Utilized computational methods to study proteins associated with diseases and conditions.
- Conducted Molecular Dynamics simulations on mutated proteins and analyzed results using tools such as Python and pyMOL.
- Enhanced Molecular Dynamics simulations through machine learning algorithms to study and accelerate drug and ligand-like interactions.

University of Pittsburgh Department of Biological Sciences

Pittsburgh, PA

Teacher's Assistant

Aug 2020 – Dec 2021

- Hosted weekly office hours and led student-based group discussions during recitations and lectures.
- Coordinated and collaborated with fellow Teacher's Assistants to create educational resources for students.

University of Pittsburgh Department of Critical Care Medicine

Pittsburgh, PA

Lab Technician

Jun 2021 – Jun 2022

- Utilized Python and Microsoft Office to improve and maintain internal databases.
- Managed incoming and outgoing samples for various research lab