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: 3.67
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