

Christian Tumandao

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SUMMARY

A B.S. computational biology graduate with programming experience in academic and research settings. Comfortable with learning new technologies and software; seeking to use broad educational background as an entry-level software engineer.

SKILLS

- Programming languages: Java, JavaScript, HTML/CSS, Python, Linux/Unix, MySQL
- Frameworks: ReactJS and Spring Boot MVC
- Technologies: AWS RDS & S3 and NodeJS
- Data/Visualization: Python NumPy, Pandas and Matplotlib | R ggplot2
- Microsoft Office: Excel, Word, Teams, and PowerPoint
- Familiar with Stata and assembly MIPS.

EXPERIENCE

University of Pittsburgh Department of Critical Care Medicine **Pittsburgh, PA**
Lab Technician **Jul 2021 – Jun 2022**

- Utilized Python and Microsoft Office to improve and maintain internal databases.
- Managed incoming and outgoing samples for various research labs such as SWAT and CRISMA.

Koes Lab, University of Pittsburgh School of Medicine **Pittsburgh, PA**
Undergraduate Researcher **Jan 2021 – Dec 2021**

- 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 recourses for students.

UPMC Shadyside **Pittsburgh, PA**
Hospital Volunteer **Aug 2021 – Apr 2022**

- Assessed geriatric patients and performed interventions on matters regarding delirium.
- Aided in the wellbeing of patients by delivering foods and assisting with everyday needs.

EDUCATION

University of Pittsburgh **Pittsburgh, PA**
B.S Computational Biology **Aug 2018 – Apr 2022**

- Minor: Chemistry, Economics
- GPA: 3.67
- Related coursework: Algorithmic Implementation, Computational Genomics, Linear Algebra

PROJECTS

- **Sport Event Manager Web Application – ReactJS, Spring Boot, AWS RDS**
- **Chess Opening Explorer Web Application – ReactJS, Spring Boot, AWS RDS**
- **Petri Dish Microbe Simulation – JavaScript, HTML5 Canvas**