Eric Wang

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EDUCATION

University of Pennsylvania — Philadelphia, PA
Bachelors of Science in Computer Science, Minor in Mathematics — *Aug 2021 – December 2024*
GPA: 3.72
Relevant Coursework: Artificial Intelligence (A+), Computer System Architecture (A+), Cloud Computing, Databases and Big Data Analytics

EXPERIENCE

Undergraduate Research Assistant — Nov 2022 – Current
ScalAR Lab at Penn GRASP — *Philadelphia, PA*
- Assisted with converting riverbed data into continuous spatial maps
- Researched interpolation schemes for 2-D reconstruction data

Hardware Engineering Intern — June 2022 – Aug 2022
Nimble AI — *San Francisco, CA*
- Assembled and tested electromechanical assemblies for robotic fulfillment systems
- Wrote and optimized robot firmware
- Developed software for verifying motor performance

Computer Science Teaching Assistant — Jul 2021 – Aug 2021
SAM Labs — *Portland, OR*
- Created lesson plans for 20 Attendees of the 2021 PPS STEM Summer Program
- Taught engineering principles and programming skills through SAM Suite and SAM Space

PROJECTS

PennBook | *Node.js, HTML/CSS, AWS DynamoDB, AWS EMR, Apache Spark* — Jan 2022 – Feb 2022
- Built and deployed a scalable social networking application
- Implemented user walls, group chats, friend visualization, and news recommendations
- Developed data analytics systems in Apache Spark

Motor Test UI | *Pyserial, Tkinter* — July 2022 – Aug 2022
- Built a simple python GUI for manually controlling motor behavior
- Implemented communication with PySerial
- Application was used during internal testing for verifying robot motor condition

ARTZ Philly Mobile | *React Native, Django, PostgreSQL, Heroku, Git* — Jan 2022 – Feb 2022
- Developed mobile app front-end in React-Native
- Implemented real-time admin control using Django Admin
- Deployed client app to Apple and Google Play stores

CT Tag Identifier | *Python, OpenCV, PyDICOM* — Apr 2021 – Jul 2021
- Programmed a method for automatically identifying sterile vision tags in CT scans
- Utilized OpenCV and PyDICOM to threshold and identify tag contours within scan files

TECHNICAL SKILLS

Languages: Java, Python, JavaScript, C, HTML/CSS, SQL, OCaml
Technologies: Node.JS, Express, MongoDB, DynamoDB, React, Pandas, EMR, Apache Spark