

# Eric Wang

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## EDUCATION

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### University of Pennsylvania

*Bachelors of Science in Computer Science, Minor in Mathematics*

Philadelphia, PA

Aug 2021 – December 2024

**GPA:** 3.72

**Relevant Coursework:** Artificial Intelligence (A+), Computer System Architecture (A+), Cloud Computing, Databases and Big Data Analytics

## EXPERIENCE

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### Undergraduate Research Assistant

*ScalAR Lab at Penn GRASP*

Nov 2022 – Current

Philadelphia, PA

- Assisted with converting riverbed data into continuous spatial maps
- Researched interpolation schemes for 2-D reconstruction data

### Hardware Engineering Intern

*Nimble AI*

June 2022 – Aug 2022

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

*SAM Labs*

Jul 2021 – Aug 2021

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

### Augmented Reality Research Assistant

*Oregon Health and Science University*

Apr 2021 – Jul 2021

Portland, OR

- Researched applications of augmented reality tech in interventional radiology
- Programmed vision tag detection methods for superimposing 3-D models over patient vitals

## PROJECTS

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### 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

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**Languages:** Java, Python, JavaScript, C, HTML/CSS, SQL, OCaml

**Technologies:** Node.JS, Express, MongoDB, DynamoDB, React, Pandas, EMR, Apache Spark