

Samuel Park

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EDUCATION

Cornell University

Ithaca, New York

Bachelor of Science in Computer Science | Minor: Artificial Intelligence

Expected Graduation: May 2026

- **Courses:** Data Structures and Algorithms, Artificial Intelligence, Machine Learning, Database Systems, Analysis of Algorithms, Intro to Backend Development, Discrete Structures, Digital Logic and Computer Organization

EXPERIENCE

Manna Hot Bagel Inc | Software Engineer Intern

May 2024 – August 2024 | Brooklyn, NY

- Assisted in the development of a fully responsive single-page application using React.js for a local service industry
- Implemented interactive UI components using JavaScript, HTML, and CSS, optimizing accessibility standards
- Performed thorough testing and debugging of the application, leading to a 15% reduction in reported user issues

Cornell University AutoBoat | Artificial Intelligence Team

Sep 2022 – Present | Ithaca, NY

- Designed and built an autonomous surface vehicle (ASV) capable of path planning, decision making, and image recognition for the annual RoboBoat Competition hosted by RoboNation
- Researched and developed a task algorithm for the 'Follow the Path' challenge in Python using the A* algorithm with the help of a YOLOv8 computer vision model
- Developed 50+ simulations using Python Matplotlib and conducted water testing to test basic functionality

Rubber Ducky Coding Club | Software Lead

Jan 2023 – Dec 2023 | Ithaca, NY

- Led 10 weekly general body meetings and participated in coding competitions to sharpen programming expertise
- Oversaw the development of 5 engineering students through weekly mentoring and introduction to the club
- Facilitated 2 social events for 20+ members and managed budget, resulting in a 120% increase in team growth

SKILLS & ABILITIES

Languages: Python, Java, JavaScript, HTML/CSS, TypeScript, \LaTeX , SQL, R

Tools/Frameworks: Git/GitHub, VS Code, React.js, IntelliJ IDEA, Node.js, Roboflow, ROS, Docker, Flask, Postman

Libraries: NumPy, Matplotlib

PROJECTS

Personal Portfolio / Blog Page | JavaScript, TypeScript, CSS

Summer 2024 | Melville, NY

- Created and designed a personal website using React.js to showcase my portfolio and experiences
- Utilized Chakra UI components to create a blog page using JavaScript with CSS for styling
- Deployed my website on Netlify and utilized SEO to promote my site and ensure its visibility on search results

Full Stack To-Do Task Application | SQL, Python, Swift

Spring 2024 | Ithaca, NY

- Designed an application that categorizes and tracks a user's inputted to-do tasks using Python and SQL
- Developed a custom RESTful API using Flask, utilizing Git for version control across the frontend and backend
- Utilized Swift UI to design the frontend and containerized the application using Docker for deployment

Asteroids | Python, VS Code

Spring 2023 | Ithaca, NY

- Created an object-oriented asteroid shooter game using Python with interactive functionality
- Modeled object movement by managing object collisions, incorporating user input, and using vector calculations
- Presented objects and their movements in a GUI with enhanced visual effects, including animations

LEADERSHIP & INVOLVEMENT

Emmaus Road English Ministry | Small Group Leader

Jan 2024 – Present | Ithaca, NY

- Led weekly discussions and created instructional materials for a group of 15 undergraduate students

El Porvenir Summer | Teacher

July 2023 – August 2023 | San Telmo, MX

- Designed and taught an English curriculum for 25 third and fourth graders, delivering weekly classes
- Directed an after-school sports program for students by creating curriculum and organizing team-based activities