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

SKILLS & INTERESTS

Languages: Python, Java, JavaScript, HTML/CSS, Typescript, LaTeX, SQL, SQLAlchemy, PostgreSQL
Tools/Frameworks: Git/GitHub, VS Code, React.js, IntelliJ IDEA, Node.js, Roboflow, ROS, Docker, Flask, Postman
Libraries: NumPy, MatPlotLib
Other Involvements: Cornell Swimming Club, Cornell Bowling Club, Emmaus Road English Ministry

EXPERIENCE

Manna Hot Bagel Inc | Software Engineer Intern May 2024 – August 2024| *Brooklyn, NY*

- Assisted in the development of a single-page application using React.js for a local service industry
- Performed thorough testing and debugging of the application, leading to a 15% reduction in reported user issues
- Utilized JavaScript, HTML, and CSS to implement user-friendly features for the company's web application

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 various path planning algorithms such as A* algorithm and pure pursuit algorithm with the help of computer vision
- Developed 50+ simulations using Python MatPlotLib and unit-tests for tuning PID to improve performance

Rubber Ducky Coding Club | Software Lead Jan 2023 – Dec 2023 | *Ithaca, NY*

- Led 10 weekly general body meetings and participated in coding competitions to hone programming skills
- Facilitated two social events for 20+ members while managing with a budget to increase team growth by 120%
- Mentored 5 underclassmen by meeting up weekly to introduce them to the club and answer any technical questions

PROJECTS

Personal Portfolio / Blog Page | *JavaScript, TypeScript, CSS* June 2024 – July 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* April 2024 – May 2024 | *Ithaca, NY*

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

McDiver Sewer Project | *Java, IntelliJ IDEA* May 2023 | *Ithaca, NY*

- Created an mock sewer system where our character escapes a randomly-generated maze under various constraints
- Implemented and utilized Dijkstra's Algorithm in Java with a priority queue to navigate through the mazes
- Enhanced the efficiency of GUI animations through the implementation of concurrency

Asteroids | *Python, VS Code* December 2022 | *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