Patrick Lisiecki

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EDUCATION

City University of New York, College of Staten Island   Staten Island, NY

Bachelor of Science in Computer Science | GPA: 3.83/4.00   *Expected Dec. 2024*

- **Relevant Coursework**: Data Structures and Algorithms, Software Engineering, Operating Systems, Database Systems, Internet Data Communications and Security, Computer Architecture, Linear Algebra, Machine Learning
- **Organizations**: Verrazzano Honors Program, The National Society of Leadership and Success (NSLS), NYC Tech Talent Pipeline, Computer Science Club

EXPERIENCE

Software Engineer Intern   Jun. 2024 – Aug. 2024

Research Foundation of CUNY - Climastry   *New York City, NY*

- Developed a file upload and retrieval system using AWS S3, Lambda, API Gateway, and TypeScript; created the file upload page using React and Tailwind CSS.
- Leveraged React, Redux, HTML Canvas, and CSS to create a drag-and-drop interface with boundary drawing.
- Built a menu that handles CRUD operations for user-drawn boundaries and the elements dragged into them.
- Collaborated with a senior engineer and project manager for sprint planning and used ClickUp to track project progress and tasks.

Software Engineer Intern   Feb. 2024 – Apr. 2024

SPEAKHIRE   *New York City, NY*

- Enhanced a career counseling platform by translating Figma designs into responsive components using React, TypeScript, Redux, and Material UI.
- Utilized Redux Toolkit Query and React hooks to optimize data fetching and caching, significantly reducing network overhead and improving overall website performance.
- Populated pages with data by integrating backend APIs, enhancing user experience and functionality, and collaborated closely with backend developers to troubleshoot and resolve API-related issues.

Software Engineer Fellow   Jun. 2023 – Aug. 2023

NYC Tech Talent Pipeline   *Staten Island, NY*

- Completed a 10-week full-stack development program focused on best development practices in an agile environment and mastering technical skills including JavaScript, Node.js, Express.js, React, PostgreSQL, and AWS.
- Led and contributed to the development of a full-stack application in a team of 4, from design to deployment.

PROJECTS

Spelling Bee App | *TypeScript, React, Node.js, Express.js, SQLite*   Mar. 2024 – Jun. 2024

- Developed a multilingual web application using the react-i18next internationalization framework featuring randomly generated educational games using an SQLite database of 10,000+ words to enhance language learning.
- Designed and implemented APIs using Express.js and Prisma to enable core features including user authentication, registration, random game generation using the Fisher-Yates shuffle algorithm, and game history saving.

Flex Fusion | *React, Tailwind CSS, Node.js, Express.js, PostgreSQL, AWS* Jul. 2023 – Sep. 2023

- Developed a fitness application with a team of 4 where enabled users can create workout plans, track their progress, analyze meal nutrition, and take a quiz for custom-tailored workout routines.
- Leveraged Node.js, Express.js, and Sequelize, to persist workout and progress data to a PostgreSQL database.
- Integrated the OpenAI API to generate personalized workout plans based on user responses to a quiz.
- Effectively deployed the application using AWS EC2 and Route 53 and configured Nginx to handle HTTPS traffic.

Operating Systems Commands | *C, Linux*   Nov. 2022 – Dec. 2022

- Developed a C program that builds a shell environment with custom commands while working in a team of 5.
- Utilized programming techniques including process creation and control, file descriptors, signals, and pipes.

SKILLS

Programming Languages: JavaScript, TypeScript, Python, C/C++, HTML/CSS, SQL
Technologies: React, Node.js, Express.js, Redux, Flask, SQLite, PostgreSQL, MongoDB, MySQL
Developer Tools: Git/GitHub, Docker, Postman, RESTful API, Jest, Figma, Linux, Amazon Web Services (AWS)