

Alejandro Gonzalez

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Education

New Jersey Institute of Technology | B.S Computer Science | Newark, NJ Expected Graduation May 2025
Coursework: Data Structures & Algorithms, Database Design & Management, Operating Systems,
Intensive Programming in Linux, Internet Applications, Intro to Agile/Scrum, Computer Networks

Work Experience

Newark Drone Coding | Teaching Assistant | Newark, NJ September 2024 - Present

- Provided instructional support for a Python coding program aimed at students aged 12-18 at College Achieve Paterson School.
- Facilitated hands-on coding exercises to reinforce lecture material and enhance student comprehension.
- Assisted students in troubleshooting coding challenges, fostering independent problem-solving skills

Urban Air Adventure Park | Assistant Manager | South Hackensack, NJ April 2022-Present

- Automation managerial tasks utilizing Python, Flask, Selenium, BeautifulSoup, to optimize and automate key processes, resulting in enhanced operational efficiency.
- Orchestrated daily operations by supervising and coordinating a team of over 100 employees facilitating efficient communication among staff members and ensuring enhanced staff awareness of roles and responsibilities.

Skills

Languages: Python, Java, C, C++, JavaScript, PHP, Bash, SQL, HTML/CSS
Libraries & Frameworks: ReactJS, TypeScript, Node JS, Express JS, Pandas, Selenium, BeautifulSoup
Tools: Linux Cli, AWS, Terraform, Git, Jira, MongoDB, MySQL, Docker, GCP, Thunder Client, Notion

Projects

Attend Easy | *React, Node JS, Express, AWS RDS, AWS Lambda, Jira*

- Designed and implemented a digital attendance system for teachers, using React for the frontend and a Node JS API for the backend hosted on several Amazon Web Services.
- Employed Scrum methodology and Jira for effective project management and team collaboration.
- Authored technical documentation for the API, detailing its endpoints, request/response format, and usage examples, to facilitate team members' understanding and effective utilization.
- Created comprehensive attendance reports highlighting key attendance metrics to assist instructors in monitoring student participation, identifying trends and addressing potential engagement issues effectively.
- Conducted user testing and gathered feedback through user surveying to refine app features and user experience.

PokeInfo | *React, TypeScript, Node JS, Express, MongoDB*

- Developed a full stack application showcasing popular Pokemon characters using Node JS, Express JS and MongoDB for the backend API and React for the front end user interface.
- Created a React with TypeScript user interface that efficiently presents a comprehensive repository of Pokemon data encompassing vital information to users. Implemented API requests optimization to minimize requests and improve responsiveness.
- Engineered an API to handle create, read, update and delete (CRUD) requests.

Work Google Auto | *Python, BeautifulSoup, Selenium, Google API*

- Created a Python automation script to scrape my work schedule from the Optim8 scheduling web application, and upload it to Google Calendar using Google API.
- Utilized Selenium and BeautifulSoup web scraping libraries to access and parse HTML from the scheduling app, retrieving the necessary data.