Jakub Vogel

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EDUCATION

Rutgers University-New Brunswick   **New Brunswick, NJ**
Master of Science in Electrical and Computer Engineering, Class of 2023   *Cumulative GPA: 4.00/4.00*
Bachelor of Science in Electrical and Computer Engineering, Class of 2022
- **Minor**: Business Administration
- **Awards**: Rutgers Presidential Scholar, Dean's List (All Semesters), Rutgers Honors College
- **Relevant Coursework**: Software Engineering, Programming Methodology 1 & 2, Introduction to Computer Systems, Computer Architecture & Assembly Language, Robotics & Computer Vision

PROFESSIONAL EXPERIENCE

Journal of Young Investigators   **New Brunswick, NJ**
Software Developer   *June 2021 – Present*
- Create lightweight and extensible React applications that fetch job posting data from an API and display them for editing to improve upon the existing process for managing job applications at the journal for the executive board.
- Work alongside the CTO to develop new features and functionality for the Journal of Young Investigators website including a modular web application for the translation department to add and preview articles in different languages.

General Motors Company   **Rochester, NY**
Automation Engineer   *June 2021 – August 2021*
- Spearheaded the implementation of a cross-functional, customizable manufacturing execution system (MES) for the General Motors Lockport plant which tracks thousands of components daily across 3 different processes.
- Designed and created 3 customizable reports using Microsoft Power BI and SQL Server Report Services (SSRS) utilizing the data gathered by the MES system to provide insight into the operational efficiency of various machines for plant managers.
- Programmed 3 heat treat furnaces to collect key performance indicators and send them to the plant's database to give the Senior Controls Engineer more visibility into the process and allow for proactive maintenance.

Controls Engineer   *June 2020 – August 2020*
- Maintained and improved 5 existing ladder logic programs and machine interface screens in a high-speed, high-precision, high-volume manufacturing environment to improve cycle time by around 10%.
- Rewrote 2 FANUC robot routines for more efficient movements and optimized robot routines to minimize downtime and operator intervention and maximize throughput.
- Troubleshot and resolved problems daily regarding production machines, robots, networks, and computers.

Riley & Jake's   **Clinton, NJ**
Dishwasher and Busser   *May 2019 – August 2019*
- Assisted with food preparation and ensuring a clean and professional environment for customers.
- Developed effective communication skills in both front-facing client interaction and with other employees.

Four Corners Finance   **Frenchtown, NJ**
Lead Website Developer   *June 2018 – August 2018*
- Configured a fully functional website dedicated to the intersection between business, finance, and accounting.
- Created optimized marketing exposure through SEO configuration and increased website responsiveness.

ORGANIZATIONAL EXPERIENCE

Rutgers Club Volleyball   **New Brunswick, NJ**
Treasurer   *January 2019 – Present*
- Properly collect and allocate more than $12,000 per fiscal year to fund various organizational events.
- Perform semester audits on proper usage of funds and ensure funding availability for tournaments and equipment.

ADDITIONAL SKILLS

Programming: HTML, CSS, JavaScript, TypeScript, ReactJS, SQL, C++/C, Programmable Logic Controller, MATLAB, Python
Skills: Proficient in Microsoft Suite, Google Suite, Git, GitHub
Hobbies: Computer Security, Volleyball, Blockchain Technology, Finance, Olympic Weightlifting, Skiing