Elizabeth (Ellie) Rabenold

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8410 Old Stable Rd.
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Education

Massachusetts Institute of Technology (MIT) — Cambridge, MA
Electrical Engineering and Computer Science — August 2019 – (Expected) Fall 2023

Indian Hill High School — Cincinnati, OH
August 2015 – May 2019

Experience

Cogo Labs | *Software Engineering Intern* | Cambridge, MA |September 2020 – Ongoing

Cogo Labs is a startup incubator utilizing data analytics and machine learning to launch tech companies in emerging fields.

- Used SQL and Python to parse billions of entries of browsing, purchasing, clickstream, and email data to identify trends indicative of the success of a company
- Employed competitive intelligence data to identify undervalued small-cap tech companies for investment or strategic partnership
- Developed supervised machine learning models to analyze data and investigate data trends

InterTech Design | *Intern* |Cincinnati, OH | June 2019 – August 2019

InterTech Design is an engineering and architectural firm that provides CAD drawings, interior design, and MEP services to a wide range of contractors.

- Researched specific lighting requirements for rooms (voltage, wattage, physical size, mounting depth, illuminance, etc.) and created cost-benefit analysis sheets and lighting directories for each room
- Calculated power requirements for restaurant kitchen equipment and created power plans in Excel that strategically routed each component to a switch on the building's panelboards
- Followed architectural schematics to construct 3D models of buildings in Visual Lighting 2017 and Dialux Evo programs and implemented corresponding lighting design
- Used AutoCAD to create wiring diagrams for receptacles, switchboxes, and utility equipment

Polar3D | *Intern* | Cincinnati, OH | July 2018 – December 2018

Polar 3D is a 3D-printing company that is working to develop a cloud network through which 3D printers around the world can be connected and managed. Polar3D also provides 3D printers to classrooms as part of the GE Additive Education Plan and develops curriculum to teach 3D printing in schools.

- Connected 3D printers to the Polar Cloud using Raspberry Pi, repaired coordinate axes, replaced malfunctioning hot plates and nozzles, and assembled Delta and Cartesian system printers
- Defined and researched the GDPR privacy standards, analyzed existing company privacy policy, and updated according to GDPR guidelines
- Used HTML to manage the profiles of hundreds of schools on the Polar Cloud that were awarded printers through the GE Additive Education Plan
- Used HTML to maintain, format, and update the online curricula that Polar3D distributes to classrooms worldwide to introduce students and teachers to 3D printing technology

Relevant Coursework

- Fundamentals of Programming
- Introduction to Python and Computer Science
- Introduction to Computational Thinking and Data Science
- Differential Equations
- Multivariable Calculus
- Introductory Electricity and Magnetism

Skills

- Proficient in Python, SQL, Git
- Fluent in Spanish
- Intermediate in Java, JavaScript, HTML, CSS, C++, Node.js, React, Flask

Activities

Massachusetts Institute of Technology — Cambridge, MA

Varsity Lacrosse Dorm Exec Committee Baker Desk Employee Mars Ice Project The Tech, Copy Editor Sigma Kappa Sorority