

# Jake Kressley

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## Education

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### BS in Computer Science

University of Pittsburgh

GPA: 3.88

08/2022 – 05/2026

Pittsburgh, PA

**Relevant Coursework:** Data Structures and Algorithms 1 & 2, Computer Organization & Assembly, Discrete Structures, Intermediate Programming, Introduction to Systems Software

**Organizations:** Computer Science Club (member), Intramural Basketball (captain), MMA Club (member)

## Experience

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### Web Developer Intern

Advantex Learning Solutions

06/2023 – 08/2023

Conshohocken, PA

- Developed interactive simulations using HTML, CSS, JavaScript, and API integration, from a wireframe to customer deployment.
- Thoroughly tested and fine-tuned existing simulations to ensure they met high standards of accuracy and reliability.
- Utilized comprehensive data analysis derived from previous client engagements to customize simulations, optimizing their effectiveness and alignment with client needs.

## Projects

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### Hotter or Cooler

- Leveraged Node.js, Express.js, React, TypeScript, and MongoDB to create a comprehensive web application that seamlessly integrates both frontend and backend components.
- Successfully integrated external APIs to provide real-time temperature data from cities worldwide, enhancing user engagement with dynamic and up-to-date information.
- Utilized TypeScript across the project to maintain high code quality, enforce type safety, and facilitate easier maintenance.

### Kress Kosmetics ✉

github.com/jakekressley/kress-kosmetics

- Collaborated closely with business analysts to infuse essential business insights into the simulation.
- Utilized HTML, CSS, and JavaScript to craft a polished and user-friendly interface (UI), ensuring an engaging and intuitive user experience.
- Accumulated 500+ unique runs of simulation.
- Implemented the Google Charts API to visually present complex data to users, enhancing comprehension and user experience.

### "Least Drivable Pittsburgh Neighborhood" ✉

github.com/jakekressley/ldpn

- Worked collaboratively with a teammate to meticulously gather and structure data from diverse datasets.
- Employed Pandas to streamline data organization and create insightful visualizations for enhanced data understanding.
- Employed Python to manipulate and transform collected data, facilitating the extraction of valuable insights and actionable conclusions.

## Skills

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### Programming

JavaScript, HTML/CSS, Java, Python, TypeScript

### Frameworks/Technologies

Git, GitHub, Bootstrap, ReactJS, MongoDB, Node.js, Express.js