Izzy Park

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Academia.edu: Senior Software Engineer **June 2022 - Present**

- Built embedding based paper recommendations: 240x speed improvement, +20% CTR
  - Main contribution was batch calculating relationships using PyTorch & AWS Batch
- Wrote context-free LaTeX grammar to improve document conversion success rate
- Used logistic regression to predict email open rate and improved our email profitability by $60k per month
- Organized a cross-disciplinary team to triage and address security issues
- Prototyped LLM based projects to better understand their business implications
- Organized monthly dev all-hands meetings with presentations from across the org
- Implemented AMI baking to improve EC2 startup time

Academia.edu: Software Engineer **June 2018 - 2022**

- Productionized system to identify similar papers across the site eventually used inside almost every feature on the site
- Implemented a system for generating zip archives in JavaScript as a MVP of what quickly became our second most profitable product offering
- Automated migration of 200+ files from Sprocket to Webpack through custom Babel AST transforms
- Implemented direct S3 uploads of documents, reducing errors for large uploads and powering thousands of uploads per day
- Designed self-healing system for choosing recommendation emails + content for 10 million users a day using Redis, Sidekiq, and Postgres

Kent State University Libraries: Student Worker **Fall 2014 - May 2017**

- Prototyped and implemented a program to monitor in use public computers

Hacksu: Co-leader **Fall 2015 - May 2017**

- Presented weekly workshops and yearly Hackathon drawing 250+ students

Kent State University Dean's Office: Student Worker **Fall 2017 - May 2017**

- Implemented and deployed custom pdf viewer for board meetings

CTI: Development Intern **June 2017 - June 2018**

- Fixed bugs in custom HTML to PDF render and worked on PHP app

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Kent State University: Computer Science (3.907 GPA) **August 2013 - May 2017**

Languages: Ruby, TypeScript/JavaScript, Python, Rust, Terraform, C++

Frameworks/Technologies: Rails, React, PostgreSQL, Redux, AWS (EC2, Firehose, Redshift, SageMaker)