

# Aditya Karan Kamireddy

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## EDUCATION

**B.A. Mathematics and Computer Science**

*Earlham College, Richmond, IN*

May 2020

- Major GPA 3.88
  - Recipient of the Howard Alexander Award for Mathematics
  - United World College Davis Foundation and Faculty Merit Scholar
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## PROFESSIONAL EXPERIENCE

**Software Engineer**

*EAI Technologies*

Sep 2020 - Present

- Flashpoint – Built a cryptocurrency transaction compliance application which integrates into Flashpoint's cybersecurity platform using React, Flask, Redis, and Docker/Kubernetes
- FHLB – Developed a new front end, several enhancements including bond swap creation, and provided maintenance services for FHLB's nationwide bond issuance application using JSF, Struts and SQL stored procs
- NDC – Designed and implemented cloud service integrations across the client's ERP, WMS and various other services using Jitterbit

**Data Analyst Intern**

*IDecision Corporation*

Jun - Aug 2020

- Created pipelines to process and analyse results to iteratively improve PeerRank, an algorithm that leverages peer-grading to efficiently determine grades for student submissions
- Designed a system to calibrate PeerRank by assigning dynamic user trust scores, raising its accuracy from 70 to 78 percent in prototype test runs

**Research Assistant**

*Computer Science Department, Earlham College*

May 2019 - May 2020

- Built and evaluated deep learning models based on techniques such as CNNs and GANs to identify analogies in text using Keras and TensorFlow
- Compiled a literature review of 54 papers related to the identification of analogies as a guideline for further research

**Incubation and Scaling Intern**

*Telangana Hub, Hyderabad, India*

Jun - Aug 2018

- Devised an automated system to periodically collect and aggregate feedback from start-ups regarding incubation services as well as dashboards to visualize important metrics using Tableau, web forms and python scripts
  - Designed the community webpage, created research collections for four start-up related projects and three incubation initiatives, and edited whitepapers for two business units
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## PROJECTS

**Parks Puzzle**

*Student Research, Earlham College*

Oct 2019 - May 2020

- Proved that the logic-based combinatorial game 'Parks Puzzle' is NP-Complete, and developed a browser application for the game using React

**EssentialTrainingApp**

*Physics Department, Earlham College*

Feb 2019 - May 2020

- Collaboratively developed a web app where professors create reusable auto-graded quiz templates for their classes and view statistics on student performance including grade distributions, difficult topics/common mistakes and individual student performance using React, Django and MongoDB
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## SKILLS AND TECHNOLOGIES

Python | Java | JavaScript | Typescript | Haskell | Bash | SQL | HTML5 | CSS/SCSS | GCP | NodeJS | React | Redux | Django | Flask | Spring | PostgresQL | MySQL | MongoDB | Elasticsearch | Redis | Docker | Kubernetes | Jira