

# Pascal Adhikary

<https://padhikary.me/>

<https://github.com/pascaladhikary>

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## EDUCATION

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### University of Illinois at Urbana-Champaign

Expected May 2023

B.S. Computer Science

GPA 4.0/4.0

- Relevant Coursework: Discrete Structures, Software Design Studio, Linear Algebra, Discrete Mathematics, Calculus 3

### Illinois Mathematics & Science Academy

May 2020

- Relevant Coursework: Advanced Java, Differential Equations, Linux & Cybersecurity, Graph Theory, Web Development

## EXPERIENCE

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### Northwestern University, Chicago, IL, *Research Intern*

May '19 – June '20

- Designed multiple algorithms in Python to solve the Multi-commodity flow problem, simulating mathematical models
- Optimized consumer advertising prices considering uncertainty via analyses and cleaning of datasets (NumPy, Matplotlib)

### Radiant Crypto Consulting, Chicago, IL, *Software Engineering Intern*

June '18 – Aug '18

- Deployed and developed cryptocurrency and stock market trade algorithms in Python through QuantConnect i.e., Arbitrage, VWAP, TWAP, POV
- Directed the creation of prospectus for clients on consensus mechanisms, volatility, and sustainability of cryptocurrencies -maintaining professionalism as well as expertise in client interaction

## SKILLS

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**Programming Languages:** Java, Python, C++, Solidity SQL, PHP, Javascript, CSS

**Tools:** Node.js, Git, NumPy, Matplotlib, Linux Bash, Bootstrap4, Android Development

## PROJECTS

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### Supply Chain Simulator (Solidity, Npm, Truffle, Ganache, Metamask, Web3.js)

- Building a fraud-proof, full-stack decentralized supply-chain simulator through smart contracts atop the Ethereum blockchain to be implemented in classes at the Gies College of Business as part of the UIUC Disruption Lab

### Visionary (Kotlin, Google Cloud API)

- Collaborated to create a mobile application which translates any image to speech for the visually impaired user as part of University of Waterloo's Hack The North 2019

### Brokerr (Kotlin, Firebase)

- Formulated and created a full-stack social network application of motivation in which money is bet on a personal goal, and if not achieved is donated to charity

## HONORS

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### 1st in State - Coding & Programming, 2019, 2018

Future Business Leaders of America

- Developed a full-stack database management application for a mock business in SQL and Java, and scored highest on a computer systems & architecture exam

### 1st in Overall Project (Python, Flask)

HackTogether

- Implemented the priority-based scheduling algorithm used in CPU processes into a homework multitasking tool for students