

# ANAKIN DEY

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## EDUCATION

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University of Illinois Urbana-Champaign Expected May 2024  
Bachelors of Science, Mathematics, Minor in Computer Science GPA: 3.96/4.0 (Dean's List)  
Completed Coursework: Abstract Linear Algebra, Data Structures, Discrete Mathematics, Probability Theory  
Current Coursework: Computer Architecture, Combinatorics, Real Analysis, Intro to Algorithms, Number Theory

## SKILLS

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**Technical:** C++, Java, Javascript, Kotlin, Mathematica, Python, SQL  
**Tools and Frameworks:** Bash, GDB, Git, Linux, Matplotlib, Node.js, Plotly, Pandas

## EXPERIENCE

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**SiteIQ - Software Intern** May. 2021 - Current

- Startup that develops interfaces to gas pumps to give station owners more insight into their pumps
- Parsed two-wire data gathered from IO Ninja using Python from multiple devices and compiled information to create more accurate system reports
- Presented findings in a way that is understandable to people of multiple levels of technical understanding

**Intro to Computer Science Course Assistant** Jan. 2021 - May. 2021

- Created code walkthroughs for homework assignments explaining syntax and patterns in programming
- Answered questions and assisted with final project in office hours and class forum for over 800 students
- Help test and develop course material to transition the course from Java to Kotlin
- Run pre-and-post quiz review sessions to help students identify gaps in their understanding

**Private Tutoring** Aug. 2019 - May 2020

- Started a tutoring business with over 10 students that focused on math, physics, chemistry, and test prep
- Targeted students with a weaker foundation in math and focused on teaching through true understanding rather than rote memorization. Emphasized visualization and logical thought processes for working through problems

## PROJECTS

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**OgC - CS196:** Options Analysis App to better inform investors new to options

Tech Stack: CSS, Django, HTML, JavaScript, Matplotlib, Pandas, Python, SQL

- Implemented filters to find options contracts of various qualities by measuring greeks, historical volatility
- Searched for stocks with certain properties by calculating and comparing qualities such as market capitalization, PEG ratios, forward and trailing PE
- Analyzed prior stock data history to find a variety of candlestick patterns in order to gain insights to larger stock price patterns

## EXTRA CURRICULARS

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**ACM: SIG-Pwny** Security Interest Group

- Gained hands on experience through workshops, ctf challenges, and hackathons by working with systems concepts and languages such as networking, cryptography, and reverse engineering
- Tested various types challenges for UIUCTF, a capture-the-flag competition, using various command line tools and programs like Ghidra and GDB