

# Sudhan Chitgopkar

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## EDUCATION

### Harvard University

(M.S) Computational Science & Engineering

May 2024

### University of Georgia

(B.S) Computer Science, (B.A) International Affairs

May 2023

GPA: 3.99/4.00

**Recognitions:** Summa Cum Laude, TEDx Speaker, Presidential Award (top 0.1% of class), Undergrad Commencement Speaker, 2023 Engineering Excellence Award (top 1 CS student)

## EXPERIENCE

### Harvard University

(Incoming) Teaching Fellow

Jan 2024 – Present

Cambridge, MA

### Amazon

Software Engineering Intern

May 2022 – August 2022

Seattle, WA

- Designed & implemented a serverless load-shedding automation application on amazon.com's data-store
- Decreased system duress notification time by >90%, increasing uptime during peak traffic
- Assisted in scaling-up and maintaining servers during Prime Day 2022

### Southern Company

Threat Analyst

May 2021 – May 2022

Atlanta, GA

- Primary analyst on a \$1.2M+ data-driven financial fraud case (ask me about this!)
- Developed a case to track an international threat actor for FBI, AUSA, and Secret Service from personal findings

### Small Satellite Research Lab

Software Engineer

Apr 2021 – May 2022

Athens, GA

- Developed core flight software in C++ using NASA F' for low-earth-orbit cube satellite, MEMESat-1
- Automated satellite command-execution-testing using Python, telemetry libraries, and ground station APIs

### University of Georgia

Teaching Assistant

Aug 2020 – Dec 2021

Athens, GA

- Assisted 35+ students with Theory of Computation coursework 3 times per week
- Taught and solved problems involving finite automata, decidability, and Turing machines

Research Fellow

- 1/30 students awarded a grant to conduct 340+ hours of intensive, faculty-mentored research
- Derived a mathematical model for Bayesian Network data tuning using DNA sequencing algorithms

## LEADERSHIP

### SolveUGA

Founder, President

Aug 2022 – May 2023

Univ. of Georgia

- Founded UGA's flagship computational problem-solving team with 200+ members and 2 faculty
- Leading weekly discussions on algorithmic complexity and optimization problems
- Solving and teaching various toy-problems in computer science and math to undergrad and grad students

### UGAHacks

Director

May 2021 – May 2022

Major League Hacking

- Led 7 undergrads in garnering \$30,000+ in funding to host UGA's flagship annual hackathon
- Coordinated with 50+ representatives across 14 companies to host 12+ workshops over 48 hours

## PROJECTS

- RepMM:** Developed an automated market market with reputationally responsive contract pricing. Modeled and proved a new market-making strategy for prediction markets.
- CrimsonBit:** Developed a BitTorrent client exploiting game theoretic models to maximize download speed. Won Harvard's CS136 BitTorrent tournament against other Harvard-developed clients.
- Serene:** Built a dynamic portfolio management tool utilizing demographic data and market volatility rates. 1st place winner, BlackRock Hack challenge, 2nd place winner, UGAHacks 8.

## TECHNICAL SKILLS

**Languages:** Java, C/C++, Python, BASH, PHP, SQL, HTML + CSS, Javascript

**Frameworks/Libraries:** Bootstrap, SDL, DEAP, Processing, P5.js, OpenGL

**Dev Tools:** AWS Lambda, DynamoDB, Emacs, \*nix Systems, Shell, Git, L<sup>A</sup>T<sub>E</sub>X, CI/CD