

# Sudhan Chitgopkar

[sudhanchitgopkar@gmail.com](mailto:sudhanchitgopkar@gmail.com) | [linkedin.com/in/sudhanchitgopkar](https://www.linkedin.com/in/sudhanchitgopkar) | [github.com/sudhanchitgopkar](https://github.com/sudhanchitgopkar)

## EDUCATION

### Harvard University

May 2024

(M.S) Computational Science & Engineering

**Concentration:** Computational Economics, Game Theory

### University of Georgia

May 2023

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

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

### Amazon

May 2022 – August 2022

Software Engineering Intern

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

May 2021 – May 2022

Threat Analyst

Atlanta, GA

- Primary analyst on a \$1.2M+ data-driven financial fraud case (ask me about this!)
- Developed a case for the Assistant US Attorney's office, FBI, and Secret Service from personal findings
- Analyzed 1000+ IP addresses & WHOIS registrations to help identify an international threat actor

### University of Georgia

Aug 2020 – Dec 2021

Teaching Assistant

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

Aug 2022 – May 2023

Founder, President

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

### Small Satellite Research Lab

Apr 2021 – May 2022

Software Engineer

NASA Ames

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

### UGAHacks

May 2021 – May 2022

Director

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

### Serene (BlackRock Challenge + UGAHacks 8 Winner) | React, HTML/CSS, Plaid

Feb 2023

- Dynamic portfolio management tool utilizing demographic data and market volatility rates
- 1st place winner, BlackRock Hack challenge, 2nd place winner, UGAHacks 8

### Jade | C, C++, OpenGL, SDL

May 2022

- Developed a graphics engine from scratch with support for 2D and 3D rendering
- Used for mathematical visualization of fractal generation, modular multiplication, and cellular automata

### Evolutionary Playground | Python, DEAP

Dec 2021

- Developed a series of evolutionary computation programs to solve optimization and root-finding problems
- Solved various NP-complete (i.e. n-Queens) and NP-hard (i.e. Traveling Salesman) problems

## 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, Figma, Git, LaTeX, CI/CD