

Sudhan Chitgopkar

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EDUCATION

University of Georgia

Aug 2019 - May 2023

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

GPA: 3.98/4.00

Recognitions: Dean's List, Presidential Scholar, TEDx Speaker, Summer Research Fellow

Awards: Outstanding CS Undergrad (top 0.3% of class), Gold Presidential Service Award

EXPERIENCE

Amazon

May 2022 – Present

Software Engineering Intern

Seattle, WA

- Automating load-shedding protocols on a tier-1 service using duress metrics
- Developing an AWS Lambda function to analyze server health notify teams of anomalous behavior

Southern Company

May 2021 – Present

Technology Solutions Intern

Atlanta, GA

- Analyzing DNS, IP, and WhoIs data on 50+ domains to identify actor causing \$500,000+ in damages
- Briefing federal law enforcement agencies (i.e. FBI, Secret Service) on data patterns
- Designed and developed a dashboard for documentation version control of 50+ nuclear software applications.

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 & INVOLVEMENT

Small Satellite Research Lab

Apr 2021 – Present

Software Engineer

NASA Ames

- Developing core flight software in C++ using NASA F' for cube-satellite project: MEMESat-I
- Automating satellite command execution testing using Python scripts interfacing with telemetry libraries

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

Franklin Residential College

Aug 2021 – May 2022

Director's Assistant

Univ. of Georgia

- Managed 10+ board members in hosting 2 weekly academic & service events for 96+ members

PROJECTS

JADE | C, C++, OpenGL, SDL

Jan 2022 – Present

- 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

Swarm Sense | Java, Processing, Python, Jupyter Notebook

May 2018 – May 2020

- Created a genetic algorithm from scratch to breed competitive co-evolution in Boid flocks
- Conducting data analysis on flock performance using Jupyter Notebook

TECHNICAL SKILLS

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

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

Dev Tools: Emacs, Linux/Unix Servers, Shell, Figma, Git, L^AT_EX, CI/CD, PassiveTotal