

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 – August 2022

Software Engineering Intern

Seattle, WA

- Created an AWS application to automate load-shedding protocols on a tier-1 customer service
- Developed a Lambda function in Java to query internal monitoring APIs for system health analysis, notifying teams of platform duress using AWS SNS, and storing metadata in DynamoDB audit logs

Southern Company

May 2021 – May 2022

Technology Solutions Intern

Atlanta, GA

- Developed a Python script for DNS, IP, and WhoIs data analysis on 50+ domains to identify a threat actor causing \$750,000+ in damages
- Briefed 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: AWS Lambda, DynamoDB, Emacs, *nix Systems, Shell, Figma, Git, L^AT_EX, CI/CD