shruti das

SHRUTID647@GMAIL.COM ✉
SHRUTIDAS.GITHUB.IO 🌐
SHRUTIDAS 🐙
SHRUTI--DAS 💼

education

Bachelor of Science, Computer Engineering　　　　　　　　　EXPECTED MAY 2021
University of Maryland — College Park, MD
- Engineering Honors Program & Dean's List — A. James Clark School of Engineering
- Lab Teaching Assistant — ENEE101: Introduction to Electrical & Computer Engineering

Bachelor of Arts, Kathak Dance　　　　　　　　　　　　　　　MAY 2016
SAMVED Conservatory of Indian Classical Music & Dance — Somerset, NJ

work experience

Incoming Software Engineering Intern, Apple Inc. — Sunnyvale, CA　　MAY 2020 - AUG 2020

Research Assistant, Cybersecurity Center — University of Maryland, MD　JAN 2020 - PRESENT
- under Dr. Michelle Mazurek in SP2, observing human behavior related to security advice & encrypted messaging

Co-Executive Director, Technica — DC Metropolitan Area　　　　　DEC 2018 - DEC 2019
- directly managed all operations for world's largest all-women & nonbinary hackathon drawing nearly 1000 students

Cloud Platform Engineering Intern, Bank of America — New York, NY　JUNE 2019 - AUG 2019
- implemented internal facing full-stack application to monitor health and status of cloud's microservices
- provided comprehensive & consolidated approach for developers to resolve bugs with cloud provisioning efficiently

Systems Engineering Research Intern, WINLAB — Rutgers University, NJ　MAY 2018 - AUG 2018
- developed an end-to-end IoT framework to persist data real-time with embedded sensors
- tested machine learning models to improve home automation & detect wireless attacks with 97% accuracy

Research Analyst, Resource Economics Dept — University of Maryland, MD　JAN 2018 - MAY 2018
- developed R scripts analyzing wind energy metrics used for sustainable solutions & equitable economic growth

relevant projects

Interact — DEVPOST.COM/SHRUTI-DAS
- built an interactive, touch-sensitive map showcasing progress towards gender equality
- constructed with Bare Conductive paint, Raspberry Pi inputs, and iOS frontend application

IoT Home Automation Security Study — WINLABIOT.WIXSITE.COM/BLUE
- developed security-conscious framework with embedded wireless sensors
- researched Bluetooth, Z-wave protocols, & openHAB technology for home automation use

Autonomous Over Sand Vehicle — SHRUTIDAS.GITHUB.IO/OSV.PDF
- designed, tested, & developed strategies for an OSV to identify & extinguish active flames

Cyber Physical Mario Kart — SHRUTIDAS.GITHUB.IO/MARIOKART.PDF
- designed and prototyped a virtual reality simulation of "Mario Kart" with a real go-cart within a test track
- created an immersive, safe UX with Crazy Cart XL, Oculus Rift DK2, Google Tango tablet, automatic breaking system

skills

programming
JAVA
HTML + CSS
C
R

software tools
ADOBE SUITE
GIT
MATLAB

leadership & activities

Venture Founders Track, Startup Shell • DC incubator with >$40M value　MARCH 2019 - PRESENT

Marketing Director, Bitcamp • improved hacker retention by 18% via social media　MAY 2018 - MAY 2019

Chapter Founder & President Emeritus, PERIOD. Inc.　　　　　　DEC 2017 - DEC 2018
- conceptualized national chapter in College Park advocating for rights to menstrual hygiene