

Sachin Rammoorthy

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EDUCATION

UNIVERSITY OF MICHIGAN

2023 | College of Engr. | Ann Arbor, MI
BSE in Computer Science and Mathematics
GPA: 3.958 | Engr. Scholarship of Honor

STONEHILL INTERNATIONAL

Valedictorian, IB Diploma Programme
ACT: 36/36 | IB: 43/45

SKILLS

TECHNOLOGY Computer Org. and Arch. • Tensorflow • Android and Web • DICOM • Docker • Kubernetes • Data Visualisation • Algorithms • Git

LANGUAGES Python • C++ • C • Android/Java • JavaScript • MATLAB

COURSEWORK Data Structures and Algorithms • Computer Organization • Discrete Math • Linear Algebra • Multivariate/Vector Calculus • Probability with Calculus • Autonomous vehicles • Microeconomic Theory with Calculus

RESEARCH Statistical inference • Regression modeling • Exploratory Data Analysis • Mathematical Demography

AWARDS/HONORS

GRAND PRIZE WINNER, GOOGLE CODE-IN July 2019

Attended the awards ceremony in Google HQ. Was a mentor to 100+ students in 2020.

ENGR SCHOLARSHIP OF HONOR

2020-2024 | University of Michigan
Recipient of a \$120,000 merit scholarship over 4 years from the College of Engineering.

INTEL ISEF Dec 2018 | New Delhi
National Finalist - two of my projects were selected among the top 50/10000 in the country.

INTL LINGUISTICS OLYMPIAD

May 2018
Shortlisted to the Indian team and attended the training camp in IIIT Hyd.

MISC

- Michigan Hackers, senior member
- Reached 407k people on Stack Overflow
- US Citizen, Chess player, Pianist, Flautist

EXPERIENCE

GE HEALTHCARE | EDISON AI ORCHESTRATOR SDE INTERN

May 2021 - Aug 2021 | Chicago, IL | EEDP Intern

Created a containerized library and API to compile and standardise results from hundreds of Artificial Intelligence algorithms run on CT and MRI scans, and then streamline report creation for radiologists. Learnt to work with Docker, Kubernetes and DICOM. Presented at CMIMI '21 (SIIM).

COMPUTATIONAL SOCIAL SCIENCE INITIATIVE | R.A.

Sep 2020 - Present | Ann Arbor, MI

Working with Prof. Elizabeth Bruch and Prof. Mark Newman at the University of Michigan. Among other ventures, building a Markovian model to analyse academic pathways and curricular environments at colleges. Entails working with large-scale course enrollment data (more than 1 million rows) and involves statistical inference, regression modeling and exploratory data analysis. Interweaves sociology, network theory, mathematics, and computer science.

CISCO (42HERTZ) | SOFTWARE ENGINEERING INTERN

July 2019 - Sep 2019 | Bangalore, India

Spearheaded the development of the analytics dashboard of OneClef, Cisco-42Hertz's flagship music streaming platform. Learnt to work with React and D3.js. Worked closely with the Director of Engineering.

LIQUID GALAXY | DEVELOPER AND MENTOR

Sep 2018 - Dec 2019

Created machine learning models to help identify forest fires with drones, developed features for the Liquid Galaxy system, led development of the LG website and more as part of Google Code-In 2018 (and was declared a Grand Prize Winner). Mentored 100+ students with Liquid Galaxy during GCI 2019.

PROJECTS

MARKOV CHAIN BASED RATINGS FOR CRICKET Jun-Sep 2019

Developed a program that scraped through every ball bowled in the Indian Premier League and generated ratings for every player in the league. Uses Markov chains, binomial distribution, integral calculus, and probability.

DIAGNOSIS OF RETINOPATHY OF PREMATURITY USING AI

Aug 2018 - Aug 2019

Developed a DL algorithm that diagnoses ROP (the leading cause of infant blindness in the world). A joint project with KIDROP and Narayana Nethralaya Hospitals.

CAREER CENTRAL PODCAST/ISR Aug 2017 - Present

Started a **podcast** that aims to empower students by providing them with insiders' perspectives on careers and enabling them to make informed decisions. 30+ episodes, 1000+ users, listeners from 70+ countries.

PAPERS/CONFERENCES

CONF. ON MACHINE INTELLIGENCE IN MEDICAL IMAGING

Sep 2021 | Society for Imaging Informatics in Medicine

Developed SAIGE, a containerized Python tool for interoperable DICOM evidence for Artificial Intelligence models, with GE Healthcare. Presentation on Sep 20, 2021.