DARSHAN KALOLA

CONTACT

- 📱 (856)-520-9398
- ✉️ darshanvkalola@gmail.com
- 📍 Newark, NJ
- 🧭 www.darshankalola.com

EDUCATION

Doctor of Medicine
New Jersey Medical School
Newark, NJ | 2020 - 2024

B.S., Computer Science
The College of New Jersey
Ewing, NJ | 2016 - 2020
GPA: 3.9

AWARDS

Phi Beta Kappa
The College of New Jersey, 2020

Best Rookie Team
International Collegiate
Programming Contest, 2019

Finalist
Northeast Google Games, 2017

Best Technical Achievement
HackTCNJ, 2017

Best Demo Award
HackRU, 2017

INTERESTS

Rock climbing, tennis, backcountry camping

WORK EXPERIENCE

SOFTWARE ENGINEERING INTERN

GOOGLE | SAN BRUNO, CA | SUMMER 2020

- Designed and developed a public-facing YouTube TV feature pushed to production using Google Configuration Language and Python.

RESEARCH INTERN

WEILL CORNELL MEDICINE | NEW YORK CITY | SUMMER 2019

- Developed a platform to estimate in-silico cardiac-cell model parameters for drug safety screening using genetic algorithms as part of Dr. David Christini's lab.

SOFTWARE ENGINEERING INTERN

GOOGLE | SUNNYVALE, CA | WINTER 2019

- Designed and implemented a deep neural network for biometric authentication as part of the Google Artificial Intelligence Healthcare team.

SOFTWARE ENGINEERING INTERN

AT&T | MIDDLETOWN, NJ | SUMMER 2018

- Analyzed scripts to detect network anomalies in SIP and MSRP call flows for Voice over IP.

ACTIVITIES

MEMBER, ALL-EARS CLUB

NJMS | 2020-2022

- Met with lonely and at-risk patients at University Hospital, Newark, to keep them company and advance their recovery.

EXECUTIVE BOARD, NJMS BOOK CLUB

NJMS | 2020-2022

- Organized and hosted book club meetings for NJMS students.

RESEARCH

MANUSCRIPTS

- Alexander P. Clark, Siyu Wei, **Darshan Kalola**, Trine Krogh-Madsen, David J. Christini. An in silico-in vitro pipeline for drug cardiotoxicity screening identifies ionic proarrhythmia mechanisms. British Journal Pharmacology. 2022.
- Hojun Yoo, Sudeep Peddireddy, **Darshan Kalola**, Douglas J. Opler. Experiences of psilohuasca use as reported on online internet forums. *Submitted to Journal of Psychoactive Drugs in March 2022.*

ABSTRACTS

- **Darshan Kalola**, Sudeep Peddireddy, Temitope Ali, Sree Chinta, Ozlem Gunal, Petros Levounis. Youtube as a source of information for binge eating disorder. *Submitted to APA conference 2022.*

PRESENTATIONS

- **Darshan Kalola**, John DeGood. Analysis of electronic health records feature sets. Celebration of Computing, The College of New Jersey. December 2019.
- **Darshan Kalola**, Trine Krogh-Madsen, David Christini. Induced pluripotent cardiac stem cell modeling with genetic algorithms. Weill Cornell/Memorial Sloan Kettering Computational Biology Summer Symposium. August 2019.
- **Darshan Kalola**, Jun Huang, Nick Post. Use of deep neural networks for photoplethysmography based biometric authentication. Google Artificial Intelligence Healthcare All Hands. March 2019.
- **Darshan Kalola**, Dmitris Papamichail. Computational tools for de novo gene design. Celebration of Computing, The College of New Jersey. April 2018.

SELECTED SOFTWARE PROJECTS

COSMOS EHR

Web | 2020 | https://github.com/kalolad1/cosmos

- A web-based modern electronic health records system for primary care physicians with streamlined workflows.

NERVETELLIGENCE

Mixed iOS Application/Hardware | 2018 | https://devpost.com/software/homecare-qfd9c0

- A hardware device that allows physicians to remotely assess patient outcomes after a stroke.

HOMECARE

iOS Application | 2017 | https://devpost.com/software/homecare-qfd9c0

- An iOS application allowing patients to learn more about their musculoskeletal injuries using Swift, Amazon Alexa, and the BetterDoctor API.