

Sounak "Raj" Das
1476 Country Squire Ct. Decatur, GA 30033-1811
Telephone: (770) 877 0447 ▼ Email: dasdas@umich.edu

Cleared for top secret information and granted access to sensitive compartmented information based on a Single Scope Background Investigation and counterintelligence polygraph completed April 25, 2018

Education

University of Michigan, Ann Arbor

BSE: Electrical Engineering
BMA: Vocal Performance (Tenor)
GPA: 3.45/4.00

Ann Arbor, MI
Dec 2018

Academic Honour Societies and Awards

Sydney J and Irene Shipman Scholarship: Awarded to the top 1% of each incoming class

Phi Kappa Phi: Awarded to the top 10% of senior by credit standing

Relevant Skills

Software Development Languages: C++, SQL, Matlab, C, Java, Python

Solution Softwares: SS Management Studio, SS Reporting Services, LabView, COMSOL, Solidworks

Languages: English (Native), German (Proficient: C1 Level), Bengali (Native)

Select Work Experience

Defense Intelligence Agency

Student Trainee, Directorate of Science/Technology

Charlottesville, VA
May 2018 – Aug 2018

- Researched and ideated novel ideas to assist in the closing of existing intelligence gaps

Ingenious Med

Business Intelligence Intern

Atlanta, GA
May 2017 – Aug 2017

- Assisted in the creation of an internal-facing troubleshooting tool documenting the ETL/Data Warehousing process and the client-facing Analyze business intelligence tool
- Created an HTML scraper using C++ to collect information about the Microstrategy web platform
- Used SSIS, SSRS, SSMS, and Microstrategy to develop and recreate forms for internal- and client-facing business intelligence applications

Shavit Lab, University of Michigan School of Medicine

Laboratory Assistant

Ann Arbor, MI
Sept. 2015 – Present

- Feed fish, clean tanks, and maintain healthy environment for fish used in clotting research
- Use computer software to analyze differences in genotypes in order to find locations of mutations in fish
- Participate in basic tasks to assist research (such as protein screening, tailing, etc)

Selected Class and Project Experience

University of Michigan

Biomedical Instrumentation and Design – BIOMEDE/EECS 458

Ann Arbor, MI
Sept. 2017 – Dec. 2017

- Used hardware filters, the LabView software, and principles of optics to create a spirometer, a three-lead ECG, and a LED-based pulse oximeter
- Used commercially available hardware components, principles of circuitry, and an Arduino to create a prototype for a wearable device to assist the visually impaired in navigating their surroundings
- Tested the effectiveness of the prototyped device and presented methodology and findings to peers and faculty

Introduction to and Intermediate Data Structures and Algorithms – EECS 280 and 281 Jan. 2015 – May 2016

- Created a command-line Euchre simulator using C++ and an understanding of classes, pointers, and the C++STDL
- Implemented a relational database for command line, including insertion, deletion, indexing, and searching
- Implemented data structures, including binary heaps, pairing heaps, sorted priority queues, and hash tables

Selected Extracurriculars

University of Michigan

Men's Glee Club: Programs Manager, Soloist, Archivist, Section Leader
United Against Inequities in Disease: Director of Activism, Records and Activism
University of Michigan Gilbert and Sullivan Society: Lead Roles (Cyril, *Princess Ida*)
Out in Science, Technology, Engineering and Mathematics (oSTEM): General Member

Ann Arbor, MI