

Rohith Pentaparth

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EDUCATION

University of Michigan, College of Literature, Sciences & the Arts

Ann Arbor, MI

B.S., Data Science, Financial Math minor | GPA: 3.631/4.000

Expected December 2018 | Internship

- **Honors:** Regents Merit Scholarship 2014, University Honors 2015
- **Coursework:** Data Structures & Algorithms (EECS 281), Computer Vision (EECS 442), Web Systems (EECS 485), Regression (Stats 413), Linear Algebra (Math 214), Structural Bioinformatics (Bioinf 528)

EXPERIENCE

Computational Protein Modeling Lab – Engineering Research

Ann Arbor, MI

Python and Bash Developer

June 2017 - August 2017

- Automated visualization tasks by scripting various programs and utilizing Python modules
- Documented additional functionality to Molecular Dynamics programs on Github

Mathematics Department - Professorial Assistant

Ann Arbor, MI

Linear Algebra Assistant to Prof. David Speyer

August 2017 - Present

- Delivered graded feedback to students on project proposals, guiding them through the process

Michigan Solar Car Team – Competitive Solar Car Racing

Ann Arbor, MI

Outreach Specialist in Business Division

January 2015 - December 2015

- Established primary contact for Solar Car's 2015 Unveil at Henry Ford Museum
- Secured various funds for solar car parts for 2015's Aurum

FIRST Robotics – High School Robotics Competitions

Okemos, MI

C++ Programmer and Tester

September 2012 - June 2013

- Performed basic testing of C++ code for driver controls of robot arm
- Gained experience with software development in a team setting

LEADERSHIP

Science Learning Center

September 2016 – December 2016

Biochemistry Tutor and Group Facilitator

- Managed a group of 10 Michigan undergraduates enrolled in MCDB 310, receiving 4.6/5.0 in overall student feedback

Residence Halls Association at Michigan

May 2015 – May 2016

Vice President of Internal Relations

- Organized campus events in programming committee, & ensured communication lines between hall councils
- Built relations/ designed 500+ person events with RHA members representing various U.S. universities

TECHNICAL SKILLS

Languages: C++ (intermediate), Python (intermediate), R (experience), SQL, MATLAB

Technologies & Cloud Experience: Flask, Cocoa Touch, Heroku Cloud, Flux HPC

Operating Systems: MacOS Sierra, Windows 10 Boot Camp, Ubuntu 16.04 LTS (VM), iOS 11

Environments: Visual Studio Code, XCode, PyCharm

PROJECTS

Slack Bot for Cryptocurrency Tracking (Python, Flask)

- Developed a Python bot, built on the Flask framework, that tracks/delivers cryptocurrency data to Slack via slash commands
- Built a Heroku PostgreSQL database to store and graph temporal data for users to view on Slack's chatbox

Facial Recognition using Principal Component Analysis (MATLAB)

- Generated eigenfaces and reconstructed images for recognition using various linear algebra techniques
- Developed MATLAB scripts to run thresholds on image inputs to check for human features

MDining+(iOS/Swift)

- Developed an application to track student calorie intake in the dining halls using the Michigan dining API
- Gained familiarity with Swift and iOS app development on XCode