

Rohith Pentaparth

penta@umich.edu | 517.402.5378 | ropenta.github.io

EDUCATION

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

Ann Arbor, MI

B.S., Data Science, Computer Science | GPA: 3.60/4.00

Expected May 2019 | Winter Co-op Intern

- **Honors & Hackathons:** Regents Merit Scholarship, University Honors, MHacks X
- **Coursework:** Machine Learning (EECS 445), Computer Vision (EECS 442), Data Structures & Algorithms (EECS 281) Web Systems (EECS 485), Linear Regression (Stats 413), Structural Bioinformatics (Bioinf 528)

EXPERIENCE

J.P. Morgan Software Engineering Internship – Finance

New York City, NY

Back-End Developer & Data Engineer

January 2018 - August 2018

- Currently working to build real time batch monitoring user interface for Wholesales Loan Operations team
- Selected from 400+ applicants to join year-long Multidisciplinary Design Program project

Structure Prediction & Algorithms Lab – Bioinformatics Research

Ann Arbor, MI

Python Developer & Research Assistant

June 2017 - Present

- Automated visualization tasks by scripting various programs and utilizing Python modules
- Currently working to improve neural-network trained machine learning algorithms for protein contact prediction

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, team raised over \$1 million in total

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

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), MATLAB (beginner), R, SQL, ReactJS

Technologies & Cloud Experience: Flask, Heroku Cloud, Hadoop MR, Tensorflow

Operating Systems: MacOS, Windows, Ubuntu, iOS

Environments: Visual Studio Code, XCode, Vim

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