

YOGI BIRBAL

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EDUCATION

Stony Brook University, Stony Brook

Computer Science • GPA 3.85 • 2016-2019 (Dec.)

COURSES

Systematic Programming, Designing, and Testing

Data Structures and Algorithms

System Fundamentals *CPU Architecture, Kernel Prog.*

Principles of Database Systems *SQL, ER Diagrams*

Theory of Computation *Turing Machines, Finite Automata*

Finite Mathematical Structures *Graphs, Combinatorics*

EXPERIENCE

Software Engineering Intern for Mutual of America

Software Engineering Intern | May 2018 – Aug. 2018

- Developed an Application to keep track of Third Party Accounts in Directory Service System
- Full-stack development on Mutual's cybersecurity site using AngularJS, Tomcat, and SQL.
- Documented every aspect of code in Specification Document for future reference.

Teaching Assistant for System Fundamentals

Teaching Assistant | Jan. 2017 - Present

- Teaching classes of 15- 25 students the concepts of computer organization, MIPS architecture, and control path design.
- Helping to introduce the MIPS Assembly programming language through coding sessions.
- Holding office hours for 3 hours each week and moderating and answering questions on Piazza for 150+ students.

PROJECTS

FaceMe | Node.js / AWS DeepLens

Jul. 2018– Present

- A responsive computer vision application designed to pick up facial features and alert owner with an SMS notification.

MusicFind | Javascript / HTML / CSS

Jun. 2018 – Present

- A RESTful web application designed to search for musical artists, display the albums of a specific artist, and link to the album on SoundCloud for a preview.

Ecran | C

Apr. 2018

- Terminal multiplexor similar to Tmux, which supports up to 10 virtual sessions.
- Extended functionality by adding status bar for terminal status and split screen support.

PinkTraveler | Node.js / SQL / HTML / CSS

May. 2018

- A web application that serves as a mock travel site system, allowing users to query and reserve flights, hotels and activities upon login.

SKILLS/LANGUAGES

- Python
- Java
- JavaScript
- Perl
- C

FRAMEWORKS

- Flask
- Meteor
- Express.js