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Rohit Bandaru

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RohitBandaru.github.io (portfolio)

Education

Ithaca, NY **Cornell University** 2015 – December 2018 (Expected)

- Bachelor of Science in **Computer Science, Electrical and Computer Engineering**, **GPA: 3.67**
- Relevant Coursework: Algorithms, Operating Systems, Embedded Systems, Database Systems, Digital Logic and Computer Organization, OOP & Data Structures, Discrete Structures, Signals

Experience

Teaching Assistant **CS 4320 Database Systems** August 2017 - Present

- Hold office hours to help students with the assignments and course material
- Grade homework assignments and exams, and answer questions on Piazza

Software Engineering Intern **Huna Makia** January - February 2017

- Completely developed EngageApp, an iOS application built on the Huna Makia API, which allows users to search a database for a professional contact to leave a ringless voicemail
- Used Sketch and Invision for UX design and Swift and Xcode for app development
- Ran extensive user testing and feedback cycles to ensure that the user experience is optimal
- Applied BJ Fogg's Behavior Model and Nir Eyal's Hooked model to design the UX to retain users

Software Team Member **Autonomous Bicycle Team** February 2017 - Present

- Designed and developed the full web stack using EJS, Bootstrap, and jQuery on the front end, Node.js and Express.js on the back end, and deployed on Google Cloud
- Implement effective navigation of the bicycle by setting waypoints using the Google Maps API and sending required data to the bicycle hardware
- Create an efficient database system with PostgreSQL to store data from the hardware and visualize and analyze it in real time

Business Team Lead **Cornell iGEM** February 2016 - Present

- Advance the project entrepreneurially by writing a business plan and performing market analysis
- Contacted companies to gain sponsorship and partnership opportunities
- Ran a crowdfunding campaign to raise over $7000 to fund the project and competition costs
- As a member of the wet lab subteam, cloned and tested two distinct bacteriocin genes into bacterial plasmids to create a more precise and effective treatment for bovine mastitis

Projects

BigRed//Hacks F16 **HeapSort** September 2016

- Worked in a team of four to develop a web and mobile application using computer vision to help users know which trash items are recyclable or compostable
- Used Microsoft Cognitive Services APIs to identify and categorize images from the webcam
- Implemented data analytics and visualization with D3.js

Technical Skills

- **Languages**: Python, Java, Swift, JavaScript, SQL, C, Matlab, HTML, CSS, ARM assembly
- **Libraries/Frameworks/Databases:** Node.js, Flask, jQuery, Express, D3, PostgreSQL, MySQL
- **Tools**: Xcode, Git, Sketch, Adobe Photoshop, Invision, Adobe Illustrator