

Phurushotham Shekar

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Education

Rutgers University

New Brunswick, NJ

B.SC. IN ELECTRICAL AND COMPUTER ENGINEERING & MINOR IN COMPUTER SCIENCE

Graduation: Aug. 2020

Relevant Coursework: Algorithms, Software Engineering, Systems Programming, Network Security, Computer Systems, Machine Learning, Computer Architecture, Data Structures, Databases

Skills

Languages

Java, Javascript, C, Python, HTML/CSS, SystemVerilog, MATLAB

Technologies

React, React Native, Node.js, SASS, Git, MongoDB, SQL, AWS, Wordpress, Drupal, Linux, Bootstrap

Projects

Galleria

North Brunswick, NJ

PERSONAL PROJECT

Fall 2020

- Developed an app to allow a user to upload images and view their thumbnails in a gallery style site
- Configured an **AWS Lambda** and **APIGateway** back-end to upload a large (up to 1GB) image and compress it to a thumbnail stored in an **AWS S3** bucket while maintaining bucket privacy by using pre-signed URLs
- Designed a **ReactJS** front-end to allow users to easily upload an image and be notified of each stage in the upload process

hARK - The Next Generation Hearing Aid

New Brunswick, NJ

SENIOR CAPSTONE DESIGN PROJECT | 8TH OF 70 TEAMS

Spring 2020

- Enabled hard of hearing users to safely navigate the outside world by developing a Hearing Aid System that connected an AR Android app with a headset controlled by a Dragonboard
- Integrated the Dragonboard with four mics and vibration motors to collect sound and quickly calculate its direction in 2D
- Sent directional data to the phone via Bluetooth and activated the motors to provide both visual and haptic feedback

Minerva

New Brunswick, NJ

TERM PROJECT - SOFTWARE ENGINEERING (ECE:452)

Spring 2019

- Improved the quality and quantity of student-professor interactions by adding in-class features to those offered in existing Learning Management Systems to ensure the professor can address every students needs
- Implemented anonymous question, real-time feedback, announcement, and in-class quiz systems in the mobile app using **React Native** and **Node.js** to interact with a **MongoDB** database using their Stitch API
- Designed the system UI using **Adobe XD** and to maximize user accessibility and minimize taps during navigation

Experience

Web Developer Intern

New Brunswick, NJ

RUTGERS UNIVERSITY: DIVISION OF STUDENT AFFAIRS AND MARKETING

May 2019 - May 2020

- Managed 25+ Student Affairs affiliated sites by updating content, writing automation scripts, deploying changes and solving errors
 - Used **Figma** and **AdobeXD** to plan, simplify, modernize, and upgrade site designs
 - Decreased overall page loading time by over 60%
- Migrated sites from **Wordpress** to **Drupal** using **Bootstrap 3**, **SCSS**, and **JavaScript** to follow WCAG Standards, and simplify the backend by minimizing external widgets and dependencies
- Enabled 50+ departmental staff to create and edit content on the new **Drupal** based sites by creating user documentation

Involvement

President

New Brunswick, NJ

TEDxRUTGERS

Sep. 2017 - May 2020

- Delegated tasks to 25 members among 6 teams, and managed a budget of \$15k+, to host the annually sold out conference
- Founded a dedicated Speaker Curator team to research, contact, and select 8 potential speakers and guide them throughout the entire process of crafting and presenting their TEDx Talk
- Collaborated with 10+ third party vendors to manage logistics, talk recordings, and stage productions for all events

HackRU Organizer - Volunteer and Hacker Experience Team and USACS Mentor

New Brunswick, NJ

RUTGERS UNDERGRADUATE STUDENT ALLIANCE OF COMPUTER SCIENTISTS (USACS)

Sep. 2017 - Oct. 2019

- Trained 50+ volunteers and mentors on their responsibilities for the hackathon to aid 800+ hackers in a timely manner
- Surveyed attendees throughout the hackathon to incorporate their feedback at future events
- Mentored underclassmen and assisted them with navigating the CS community and curriculum at Rutgers

Honors & Awards

hARK: 8th Place of 70

Rutgers ECE Capstone Awards Expo 2020

New Brunswick, NJ

Gradian: Best Education Hack

Also Top 10 overall amongst 130+ Hacks at PennApps XVII

Philadelphia, PA

Finalist: 64 of 3000+

IBM Vault 2018 and invited to IBM Cambridge for the final challenge

Boston, MA

SOLARGii: 3rd Place of 50+

Honors College Forum Spring 2017 Pitch Competition

New Brunswick, NJ