Raavi Chowdhury

845-532-5011   •   US Citizen   •   rkc3356@rit.edu

Profile

Passionate about developing web technologies and software that provide revolutionary user experiences and a lasting positive impact on the communities that need them. Seeking a software development co-op for **Spring/Summer 2022**.

- Object-Oriented Programming (Java, C++)
- Web Development & Graphic Design (React, Django)
- Thorough experience with Version Control Systems
- Strong Writing Ability (Technical & Creative)
- Scripting & Automation (Python, PHP)
- Excels in Agile work environments

EDUCATION

B.S. Software Engineering, Rochester Institute of Technology | GPA: 3.22/4.0 | May 2023
Minor in Music & Technology

RELEVANT EXPERIENCE

Web Developer   Jan. 2021 - Present

RIT Enterprise Web Applications | Rochester, NY
Developed a modern web experience for RIT's Division of Finance and Administration
- ❖ Corresponded directly with customers while analyzing outdated web pages to develop requirements for the new environment
- ❖ Created wireframes and sitemaps to design optimal user flows with business goals in mind
- ❖ Built clean, contemporary pages for customers using Drupal 9 with special attention to ADA compliance and accessibility requirements
- ❖ Composed 21 page documentation for RIT's Drupal environment with breakdowns of key functions for customer maintenance
- ❖ Released seven concurrently developed projects which resulted in both customer satisfaction and university-wide acclaim
Tools: PHP, Drupal 7/8/9, SQL, TWIG, Javascript, HTML5, CSS3, Bootstrap

SWEN/CS Tutor   Feb. 2020 - May 2020
CSTEP at RIT | Rochester, NY
Guided RIT's CSTEP students through computing courses and fostered a caring learning environment
- ❖ Strengthened students' understanding of Software Engineering and Computer Science topics involving C, Java, Ruby, and Python
- ❖ Coached students to better their methods of writing & debugging code to efficiently progress through coding projects and assignments
- ❖ Helped students prepare for exams and practicums, resulting in an upwards trend in received grades
Tools: Java, C, Ruby, Python

PROJECTS

Page Discovery and Fuzzing Tool
Created an automated, customizable webpage discovery & fuzzing tool to discover vulnerabilities
- ❖ Designed fuzzing system to be highly configurable to fit a variety of vulnerability-seeking needs
- ❖ Utilized Python3's MechanicalSoup package to scrape pages for inputs and leaked data
- ❖ Released three versions with practical new features in each iteration
Tools: Python, MechanicalSoup, Apache, MariaDB, Perl, PHP

Cinematch
Produced a user interface for a tool that connects users to interesting movies with Tinder-style swiping
- ❖ Performed contextual inquiry and analysis with user test-subjects to understand the domain
- ❖ Developed the front-end in React with Material UI for users to query through movies
- ❖ Created user interface that allowed users to go from having no account to finding movies within ~60 seconds
Tools: React, MaterialUI, CSS

PROFESSIONAL EXPERIENCE

Research Assistant   Jun. 2017 - Aug. 2020
Hawthorne Valley Association - FarmHub | Hurley, NY
- ❖ Worked with and learned from a variety of researchers analyzing the environmental effects of modern farming practices
- ❖ Collected samples and coordinated students during field-work
- ❖ Managed highly sensitive data to create and organize Excel spreadsheets which were vital to the study