

Umang Garg

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EDUCATION

ROCHESTER INSTITUTE OF TECHNOLOGY | MS IN SOFTWARE ENGINEERING

Aug 2016 - Dec 2018 | Rochester, NY • GPA: 3.94/4.0

ITM UNIVERSITY | BTech IN MECHANICAL ENGINEERING

July 2010 - June 2014 | India

EXPERIENCE

GTR EVENT TECHNOLOGY | SOFTWARE ENGINEER

March 2019 – Present | Charlotte, NC

- Requirement elicitation, development and maintenance of new and existing client websites and registration/CEU platforms with a fully automated CI/CD pipeline.
- Optimized and redesigned the registration CMS platform from scratch, speeding up the loading time by over 200%.
- Used OpenCV library with Python to develop an automatic image categorizer/identifier to identify booths on an image map based on various image properties. Saved over 50 hours of work/event.
- Leveraged GraphQL data mutations/queries with Laravel to perform Swapcard API integration with the registration platform.
- Incorporated Stripe payment processor widget.
- Performed user testing, troubleshooting prior to live deployment and debugged production issues in PHP and Shell.

ROCHESTER REGIONAL HEALTH | SOFTWARE ENGINEERING CO-OP

June 2018 – Dec 2018 | Rochester, NY

- Modeled and developed backend application logic and REST APIs for a web-based Test Catalog application using Hibernate OGM and MongoDB. Additionally, implemented SSO (Single Sign-On), and created services for CRUD, uploading/downloading files, etc.
- Integrated process with OpenAPI (Swagger 2.0) to auto-generate REST-API documentation to significantly improve documentation quality and API availability.

ROCHESTER INSTITUTE OF TECHNOLOGY | GRADUATE TEACHING ASSISTANT

Jan 2018 – May 2018 | Rochester, NY

- Supported faculty research projects; contributed to the development of appropriate teaching materials.
- Consistently provide feedback on assignments before established deadlines.

SKILLS

RELEVANT COURSEWORK

Data Structures & Algorithms, Databases, Software Architecture, Abstract Algebra, Client/Server Side Development

FRAMEWORKS & LIBRARIES

Java • JavaScript • jQuery • PHP • Laravel • Python • HTML/CSS • ReactJS • NodeJS • MySQL • OpenCV • Android • Neo4j • D3.js

OTHER

Git, Android Studio, Eclipse, Visual Studio, Windows, Mac OSX, Linux, Atlassian Suite, Postman, Swagger

PROJECTS & RESEARCH

RECOMMENDER SYSTEM FOR IMPLEMENTING JAAS AUTHENTICATION | GRAD RESEARCH PROJECT

Jan 2018 – Dec 2018 | Rochester, NY

- Developed a parser that automatically detects and identifies the sequence of method calls made by developers to implement JAAS authentication across open-source projects on GitHub.
- The recommender system can be used to not only identify the methods missing in a given project but also develop a recommendation system that suggests the correct order that needs to be followed to implement JAAS authentication fitting a new project.

MUSICART E-COMMERCE WEB APPLICATION | GRAD PROJECT

Mar 2018 | Rochester, NY

- Built a dynamic ecommerce website for musical instruments using PHP5, MySQL, Bootstrap and continuous deployment with Heroku.
- Integrated key functions for customer login, admin CRUD functionalities, and inventory management of shopping cart with order details, possible sale price available, etc. with the database.
- Wrote jQuery/PHP functions to handle form validation, sanitization, and dynamic element updating using AJAX.

LABORATORY APPOINTMENT MGMT SYSTEM SOAP/RESTFUL WEB SERVICE | GRAD PROJECT

April 2018 | Rochester, NY

- Implemented independently a SOAP and a RESTful web service to build the back-end of a Laboratory Appointment Management System using Java.
- Built the mid-tier service as well as the business layer using the data provided through the data layer.
- The web service produced and consumed XML strings.