John Mihal

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Profile

Aspiring developer with concrete programming skills, and a focus on user centered design.

- Work experience with AWS products; Lambda, S3, API Gateway, SQS, CloudWatch, Step Functions and CloudFormation
- Object Oriented Languages; Java, Python, and C#
- Web development skills with CSS and JS
- Database concepts, experience with SQL
- Team oriented and versed with Agile and SCRUM
- Experience with C, gaining experience in C++

Education

B.S. Computer Science, Rochester Institute of Technology, 3.7/4.0, December 2024

Professional Experience

Research & Pre-clinical Development IT Coop, **Regeneron**   January 2023 - August 2023

- Worked in the Scientific Services Platform team to create integrations and connections between scientific systems such as BioBank, Clarizen, Dotmatics, ServiceNow, CoreLIMS, Velocigene and other laboratory information management systems (LIMS) using Python and AWS Lambda.
- Designed and implemented a internal SwaggerHub replacement using AWS S3, AWS API Gateway, SwaggerUI and JS which saved over $20,000 in yearly licensing costs.
- Translated scientific business requirements to develop Python code for a Dotmatics to CoreLIMS molecule synchronization system and coordinated testing with Senior Developers, Principal Business Analysts and Consultants.
- Deployed continuous integration and continuous deployment (CICD) pipelines by configuring Jenkins CloudBees and installing Jenkins shell scripts in repositories using Perl.

Research Assistant, **RIT Quantum Imaging Laboratory**   September 2023 - ongoing

- Simulating light propagation on photonics chips using the Python and the Meep library

Projects

Clash Stats (personal)   Team size: 1   Summer 2023

Created a website where users can make sharable dashboards to view and compare live in game statistics with friends for the popular mobile game Clash Royale.

- Implemented the website with a Express Node.js backend
- Dashboards are stored in a MongoDB database and are available for retrieval via unique links
- Utilized Bootstrap CSS to create mobile friendly responsive design

Tools: Node.js, MongoDB, Mongoose, Express, Pug, Clash Royale API, Bootstrap CSS, Axios, JS

Meal Hub (academic)   Team size: 4   Spring 2022

Designed a SQL relational database and a Java database management application. The application allowed users to manage a virtual pantry, search recipes and receive recipe recommendations.

Tools: SQL, Relational Databases, Java, Java Fx, Gluon Scene Builder, R

Extracurriculars

Society of Software Engineers - Student Mentor, 3 hours a week of tutoring students

Multidisciplinary Robotics Club - Programming an autonomous vehicle using ROS Linux and C++

RIT AI Club - Weekly discussions and presentations about AI in industry