

MICHAEL KHA

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EDUCATION

Rochester Institute of Technology

Rochester, NY

BS in Software Engineering, Minor in Computer Science & Mathematics, GPA 3.7

May 2022

Coursework: Algorithms & Data Structures, Mechanics of Programming, Web Development, UX

Design, Object-Oriented Design, Design Patterns, Life Cycle Models, Process and Project Management

EXPERIENCE

Norfolk Southern Corporation

Atlanta, GA

IT Intern

May 2019 - Aug 2019

Assisted in maintenance of legacy strategic intermodal management system as part of the SIMS team.

Rewrote web services in ExpressNS app from MobileFirst to JBoss server architecture. Worked on

tickets to modify batch jobs and scripts to fix issues found by analysts and business partners. Analyzed

and documented business logic of legacy Uniface system. Introduced to the transportation industry.

Utilized: C, Java, Javascript, Python, Perl, PVCS, SQL (IBM DB2), TFVC, Uniface

PERSONAL PROJECTS

Stock Portfolio App

Created a financial information web application. Developed website to be able to search for stocks that are added to a table for simplified viewing. Utilized IEX Cloud API to procure stock data. Researched asynchronous callbacks, MaterialUI, Express, and React hooks. Minimum viable product completed.

Utilized: HTML, CSS, Javascript, React, Node, RESTful APIs

Thirteen Card Game

Creating an online version of a playing card game. Gathered requirements by analyzing the game to produce an initial domain and class structure. Researched the rules for the business logic.

Utilized: Java, JavaFX, JUnit, Maven, Git

CLASS PROJECTS

Library Book Management

Tasked to design as a team, a management system solution for maintaining information regarding books and visitors. Modeled a high-level design in package and class structure diagrams to be implemented.

Discussed individual benefits between design choices in design document. Current command line interface version was delivered as a Java archive, while a graphical user interface is in progress.

Utilized: Java, Maven, Git, Design Patterns, UML, Slack, Trello

Web Checkers

Worked as a team to create an online checkers application. The team analyzed the problem into a domain model and functional requirements. Acted as lead architect by designing class structure using MVC architecture, highlighted in a design document. Implemented iteratively over three sprints.

Achieved 95% code coverage and three stretch goals beyond the minimum viable product.

Utilized: Java, Spark, Freemarker, JUnit, Maven, Git, UML, Scrum, Slack, Trello

TECHNICAL SKILLS

Languages: *proficient:* Java, C, Python, HTML, CSS, SQL | *familiar:* Javascript, Perl, Ruby

Frameworks: React, Flask, Spark

Engineering: Agile, Scrum, SDLC, UML, Unit Testing, Version Control