MONARK BASAK

Software Engineering Student

CONTACT INFORMATION

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TECHNICAL SKILLS

Languages: C, Java, Perl, R, Python, HTML, React, JavaScript, MS SQL/SQL, and CSS.
Operating Systems: Windows 7/8/10, Linux (Ubuntu/WSL) and macOS.
Task Management Tools: JIRA, Trello and Git/GitHub/GitLab/Bitbucket.
Development Methodologies: Agile/SCRUM and Pair-programming.

EDUCATION

Bachelor of Computing in Software Engineering (Honours) CO-OP, 2024

UNIVERSITY OF GUELPH

Academic Projects

SVG Image Editor (C/JS/jQuery/Node.js/AJAX) - 2020

- Utilized C to create an XML parser that can manipulate, validate, create and write SVG images.
- Utilized JavaScript, jQuery, AJAX and Node.js to create a dynamic web application that helped interface with the C SVG parser.

Dungeons and Dragons Generator (Java) - 2019

- Utilized OOP principles to implement a clear modular structure for programs.
- Created JUnit tests to perform unit tests on project code.
- Implemented a graph algorithm to connect chambers to each other.
- Utilized Git/Gitlab for version control allowing for tracking changes in code.

CSV Search Engine (Perl/R) - 2019

- Parsed large CSV files using Perl to obtain and analyze key data points.
- Implemented regex comparisons to search through metatags in order to retrieve important data from files.
- Implemented R script to use the data compiled from parsed CSV file and display a visual graph of relevant values.
- Collaborated in a small group with colleagues to work on project using Trello.

PERSONAL PROJECTS

Amazon Price Tracker (Python) - 2020

- Utilized libraries such as BeautifulSoup to parse Amazon's product page and locate its price(s).
- Implemented SMTP protocols to ensure an email notification is sent when conditions are met.

WORK HISTORY

Web Application Developer

KENNA (jQuery/React/Redux/MS SQL/Node.js) 2020 to 2021

- Converted wireframe mock-ups into page features using JavaScript with jQuery and additional libraries.
- Utilized MS SQL, Node.js and AJAX to implement a 'Forgot My Password' feature for the company's US logistics application.
- Extensive use of Chrome DevTools to fix bugs.
- Utilized React, Redux, Node.js and MS SQL to implement a 'Cost of Goods Sold' feature for the Market Connect application.
- Experienced in using project management tools such as JIRA and BitBucket to complete assigned tasks.