






Cyril Hancock

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EDUCATION

Christ College

M.S. Computer Science

Nov 2022

GPA: 9.10/10

Fergusson College

B.S. Computer Science

May 2020

GPA: 8.93/10

COURSEWORK

Courses: Object-Oriented Programming, Data Structures & Algorithms, Embedded Systems, Discrete Math, Linear Algebra, Calculus, Probability & Statistics

SKILLS

Programming Languages: JavaScript/TypeScript, HTML/CSS, C#, SQL, PL/SQL

Dev Tools: Git/GitHub, Unix Shell, Webpack, VS Code, Atom, Debeaver, SSMS, Visual Studio, Azure Data Studio, SQLProfiler, DBeaver, Figma, Jira

Frameworks: React, Node.js, .Net Core, Next.js, Express.js, Bootstrap, MongoDB, Material-UI

Databases: SQLServer, MySQL, MongoDB

EXPERIENCE

Ellicium Solutions | *Software Developer*

Nov. 2022 – Present

GTO Prime - Project

RFX Development

- Designed UI components for email management, including inbox, chart views, and attachment handling.
- Developed Node.js APIs for **sending, receiving, and managing emails**, including bookmarking and attachment download functionalities.
- Utilized **Microsoft Graph API** for sending emails to multiple recipients.
- Designed APIs for handling base64 blobs, converting file formats, and managing attachments.

SXR - Project

Vendor Normalization

- Utilized **SignalR** to display **real-time status** updates for **pipeline processes**.
- Engineered APIs for triggering **ETL pipelines** and uploading **millions of records** to **Azure Data Lake Store (ADLS)**.
- Developed a **GraphQL API** allowing dynamic sorting, filtering, and querying.
- Implemented **APIs for bulk record uploads and updates**, with status notifications via SignalR.
- Designed **UI components** to visualize pipeline statuses and manage file uploads efficiently.
- Employed **ag-Grid** for handling **large datasets** with **filtering, sorting, and editing** capabilities.
- Created **stored procedures** for **optimizing database operations** and reducing latency.

Power Pivot

- Designed user interfaces **leveraging ag-Grid for Excel-like functionality, including sorting, filtering, and row/column grouping**.
- Developed **GraphQL APIs** and **hierarchical DTOs** for **dynamic SQL generation** and data manipulation.
- Engineered APIs for **exporting large datasets to CSV** and **dynamically pivoting** data in Excel.

Benchmarks

- Created **optimized APIs** utilizing **caching mechanisms** and **custom query execution plans** to significantly reduce latency.

- Created a stored procedure that significantly reduced the processing time of the API from **3 minutes to 4 seconds** by implementing optimized options and a **customized query execution plan**, while also incorporating **user-defined table types**.

Portfolio Mode

- Modified numerous APIs to integrate Portfolio Module functionality using **ADO.NET**.
- Segregated data based on portfolio company roles.
- Designed a history page to track user activity within the Portfolio Module.

Temporary Labor Management

- Implemented APIs to trigger **Data Factory pipelines** and transform **large datasets**.
- Developed **stored procedures** to handle **large dataset** transformations.
- **Optimized** UI to **reduce browser RAM consumption** and utilized npm packages for efficient resource utilization.
- Implemented a **CSV validator** to ensure data integrity and compatibility.

Performance Fixes

- Optimized **APIs and SQL queries** to enhance performance and reduce unnecessary data retrieval.
- Addressed **Microsoft error 8621** through **SQL optimization techniques** and database **defragmentation**.

MealFul Inc | *Software Developer Intern*

Apr. 2022 – May. 2022

- Developed a REST API using PHP and PostgreSQL to store data about drivers
- Developed few modules using React, TypeScript, and Tailwind CSS for styling.
- Learned How to use GitHub to do version control

PROJECTS

WhatsApp Clone | *Next.js, Firebase, Google, Tailwind CSS, Hero icons, Redux*

Jan. 2022

- Used Tailwind CSS to style it and make it faster
- Implemented the routes using Next.js
- Added Pdf and Photo sending functionality using Firebase Firestore

Facebook Clone | *JavaScript, React, Firebase, Tailwind CSS, Next.js*

Feb 2022

- Developed a full-stack web application using Next.js serving a Firebase API with React as the Frontend
- Implemented Facebook Auth to get data from user's account
- Visualized the very essence of Facebook by creating story mode and posts
- Used Redux to manage state across the site

TaskBoard | *Next.js, Firebase, Google, Tailwind CSS, Hero icons, Redux*

Mar. 2022

- Developed a TaskBoard that you can use to make Task and Display them
- Each individual has a different amount of Tasks
- Can delete and edit Tasks
- Can mark Task as Done or add Details regarding the task