

Ibrahim Semary

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EDUCATION

Texas A&M University, College Station, TX

Expected - May 2024

Bachelor of Science in Computer Science (Engineering Honors)

GPA: 3.93

Coursework: Computer Organization and Architecture, Data Structures and Algorithms, Computer Systems

SKILLS

Technical Languages: JavaScript, Python, C/C++, C#, HTML, CSS, JAVA, Haskell, PowerShell

Software Tools: ReactJS, Azure, Git, NodeJS, Redux, .Net6, GitHub, Bitbucket, Jira, Bamboo, Google Cloud Platform

Software Concepts: Object-Oriented Programming, Data Structures and Algorithms, Linux, Cloud Computing, DevOps, Agile, Caching, Concurrency, Relational Databases, Hashing

EXPERIENCE

Honeywell – Software Engineering Intern - Atlanta, GA

May 2022 – August 2022

- Contributed to building a customer-facing portal for Honeywell Administrators to upload and for clients to download firmware
- Set up an Azure Kubernetes cluster, PostgreSQL, and proposed a database schema
- Created an interactive UI using ReactJS with Honeywell Forge Library and Semantic UI, used React Hooks for navigation and functionality, and Axios library for API calls
- Created auto-detection and filtering functionality to process new product changes and dynamically reflect those changes on the frontend using JSX loops
- Connected the Backend to Azure blob storage using connection strings and Blob Client Service to upload and delete files in the storage account
- Used the Agile methodology and collaboration software such as Jira, Bitbucket, and Confluence

Texas A&M University – Teaching Assistant - College Station, TX

September 2021 – Present

- Assist professor in teaching python course (ENGR 102) to 96 engineering students
- Host 2 weekly help sessions to analyze and debug students' code and grade student assignments
- Complete coursework before due dates and create assignment solutions using course curriculum learned

PROJECTS

InstaBook: (Project Demo: <https://youtu.be/djfczPKBiGo>)

- Utilized NodeJS, HTML, and CSS to create a tour booking website for MSC Hospitality to allow clients to input tour requests and administrators to login, view, and manage all requests made
- Managed user-input across pages by encoding fields through URL params to connect frontend to backend
- Worked on the backend to create a JSON object for each user created and writing that into a JSON file
- Designed pages using the bootstrap library to create a modern looking UI

Leadership & Organizations

Aggie Toastmasters

January 2021 - Present

President | Texas A&M University, College Station, TX

- Lead weekly club meetings for 25 members and Exec meetings for 6 officers
- Set club strategy with exec team to achieve club goals in growth/retention/participation and university presence
- 1st place in Club Level competition for Impromptu Section and 2nd place in Prepared Speech Section

Texas A&M Computing Society

January 2021 - Present

Workshops Officer & Treasurer | Texas A&M University, College Station, TX

- Prepare and facilitate programming workshops and technology info sessions for students (Git, React, etc.)
- Create budget and manage club finances
- Work as club liaison for corporate sponsors