Arwin Arun Swapna

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Education

University Of South Florida **August 2024**
*Bachelor of Science in Computer Science - **Cum Laude*** *Tampa, FL*

Technical Skills

Languages Python, C#, C/C++, HTML/CSS, JavaScript, TypeScript, PowerShell
Developer Tools Git, Jira, Visual Studio, VSCode, Docker, GitHub Actions, Stripe, Postman, Vite, Windows, Linux, Agile, SDLC
Technologies/Frameworks .NET, Blazor, Entity Framework, React, Redux, NodeJS, Flask, Pytest, SharePoint, SPFx, M365
Databases MySQL, Postgres, SQLite, MongoDB, Microsoft SQL Server
Awards USF Green & Gold Scholarship (2019 – 2024), USF Tampa Library Scholarship (2021)
Relevant Coursework Data Structures, OS, Analysis of Algorithms, Databases, Secure Coding, Human Computer Interaction

Experience

Tenex Software Solutions **July 2024 – Present**
Software Engineer *Tampa, FL*

- Engineer a web application using Blazor Server and Golang to manage **AWS ECS, RDS** and **EC2** instances, incorporating election schedules to automate resizing, stopping, starting, and archiving of instances, optimizing resource allocation and reducing operational costs.
- Contribute to the development of a large-scale custom applications built with Blazor, Golang, and VB.NET, supporting over **47 million** users across **21 US states**, ensuring high performance and scalability.

White & Case LLP **May 2024 – July 2024**
Application Development Intern *Tampa, FL*

- Initiated and implemented custom solutions for SharePoint sites using SPFx and React, including widgets, a DEI metrics dashboard, and a Teams webpart tab for tracking employees status by team.
- Wrote PowerShell scripts to streamline data migration from on-premises to cloud environments, and participated in both on-premise and cloud development projects focusing on Microsoft M365 and SharePoint platforms.

Tenex Software Solutions **August 2022 – April 2024**
Software Engineer Intern *Tampa, FL*

- Implemented Form.io within our application, slashing development time by **95%**, and drastically reducing downtime for form updates and creation, leading to significant efficiency gains.
- Collaborated with cross-functional teams to storyboard and map databases for migrating VB.NET codebase to Blazor WebAssembly and Go APIs, promoting effective teamwork.
- Devised a Python script for monthly cloud usage analysis, resulting in annual savings of over **$2000**, and coordinated with the DevOps team for seamless integration into our cloud infrastructure.
- Facilitated sprint planning, stand-ups, and retrospectives with the team to foster alignment and maximize project efficiency within Agile methodologies, particularly Scrum.

Projects

E-commerce Store | *React, TypeScript, C#, ASP.NET Web API, Postgres, Github Actions* **invitecards.in**

- Built a tailored E-Commerce platform using React, TypeScript, ASP.NET Web APIs, Entity Framework, and Postgres, integrating Redux for streamlined state management and Stripe for secure transactions.
- Managed Docker containers and established CI/CD pipelines via GitHub Actions, significantly reducing deployment time by **80%**, streamlining testing and deployment processes for enhanced development efficiency.

Spotify To MP3 | *Python, Flask* **github.com/arwin-swapna/spotify-to-mp3**

- Developed a Python Flask application to seamlessly retrieve and download users' favorite songs from Spotify playlists as MP3 files by integrating with Spotify and YouTube, facilitating offline music enjoyment.

USF Class Scheduler | *React, TypeScript* **usfclass.netlify.app**

- Participated in a team effort for a project in the Human-Computer Interaction class to design and implement a Class Scheduling App using React and TypeScript, aimed at enhancing the scheduling experience for USF students.

Multithreaded Video Compression Tool | *C, Pthreads* **github.com/arwin-swapna/vzip-os**

- Optimized a video compression tool in C using pthreads, achieving **5.5x** speedup by managing up to 20 concurrent threads, and created a visualizer to decompress and display frames as a video for enhanced functionality

Leadership / Extracurricular

American Institute of Chemical Engineers **December 2020 – May 2021**
Electrical Technology Lead *University of South Florida*

- Led a team in collaboratively designing and implementing the electrical system for the annual Chem-E Car competition at the University of South Florida.
- Coordinated our team to secure 4th place in the 2021 Chem-E Car competition, showcasing our innovative development and integration of an Arduino-based stopping mechanism with photoresistors for enhanced functionality.