

# Ryan Ritchey

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## Objective

Motivated and detail oriented individual, with a degree in computer science, three years of experience in the entire (or full) software development lifecycle, looking to expand my career as a Software Engineer.

## Education

**Computer Science B.S.**, University of California, Irvine

December 2020

## Technical Skills

**Languages:** JavaScript, Python, C#, Java, C++, C, HTML, CSS

**Tools and Frameworks:** NodeJS, AdonisJS, SQL Server, Postgres, Insomnia, Docker, CypressJS, OpenAPI, ASP.NET, React, PowerAutomate, Common Data Service, Microsoft Graph API, Azure, Express, Bootstrap, MongoDB

## Professional Experience

**Esri**, Redlands, CA

January 2021 – Current

*Software Development Engineer I (ArcGIS Monitor)*

- Responsible for developing, testing and providing extensive documentation for numerous features and APIs within our product, which generates over one million dollars annually.
- Lead the development of the ArcGIS Monitor (AGM) Agent, which allows customers to monitor components in different network environments. The AGM Agent utilizes WebSocket connections to exchange crucial data with the AGM Server.
- Reduced the number of database transactions made by the server, by implementing multiple caches in memory which led to a decrease in response time from our APIs and increase in overall performance.
- Enhanced the robustness of our backend system by allowing the server to react to Postgres table changes in real time. Achieved this by implementing various Postgres table triggers that offload table changes directly into our system.
- Implemented a crucial notification feature that utilized webhooks and automated email notifications, which allowed GIS administrators to obtain real time status updates on their ArcGIS deployments.
- Advanced the core functionality of our product by allowing users to test and upload custom scripts, paving the way for monitoring of custom components and metrics

**Skyworks Solutions**, Irvine, CA

January 2020 – December 2020

*IT Enterprise Architecture and Development Intern*

- Worked with the Skyworks Wafer Fabs in Asia to overcome the Covid-19 pandemic, by designing and implementing a self-service site transfer process which utilized the Microsoft Power Platform and SharePoint Databases.
- Instrumental in creating an initial POC for a custom app to reduce human error and increase efficiency of the chemical batch process in fabrication facilities by leveraging the Microsoft Power Platform including the Common Data Service.
- Pioneered long term sustainability of Skyworks custom applications by using C# and the .NET framework, to replace deprecated Azure Blob Storage APIs with the most recent methods.
- Collaborated with our team of data analysts to write and run SQL scripts within Microsoft SQL Server Management Studio to validate the migration of data from an ODS database to an Azure database.

## Personal Projects

### Yelp Clone (HTML, CSS, JavaScript)

- Developed a full stack web application, which uses a custom RESTful API, that mimics Yelp for campgrounds.
- Implemented using NodeJS and Express, hosted on Heroku, and uses MongoDB to store the data.
- Functionality includes user authentication and authorization, flash messages and RESTful routing.

### Soundcloud Web Scraper (Python)

- Developed a program which allows a user to download their latest likes on SoundCloud to their computer.
- Utilizes Python packages, BeautifulSoup and Selenium, to obtain download links for each song, if provided, and automates the downloading process.