

# Ryan Ritchey

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## Objective

Motivated and detail oriented individual, with a degree in computer science and a year of experience in IT and the software development lifecycle, looking for a career as a Software Engineer.

## Education

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

Expected: December 2020

## Technical Skills

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

**Tools and Frameworks:** PowerApps, PowerAutomate, Common Data Service, SharePoint Online, Microsoft Graph API, Azure, Visual Studio, ASP.NET, SQL Server, NodeJS, Express, jQuery, Bootstrap, MongoDB, Passport

## Professional Experience

**Skyworks Solutions**, Irvine, CA

January 2020 – Present

*IT Enterprise Architecture and Development Intern*

- Worked with the Skyworks Wafer Fabs in Asia to overcome the Covid-19 pandemic, by developing 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.
- Automated the Microsoft Team creation process by leveraging the Microsoft Power Platform and the Microsoft Graph API within M365, which led to a significant reduction in turnaround time between request and creation of the team.
- 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.
- Simplified access between company applications by configuring SAML Single-Sign-On for multiple applications, such as Github and VictorOps, with Azure Active Directory.

**Kappa Sigma Fraternity**, University of California Irvine

January 2019 – January 2020

*Recruitment Chair / Program Manager / Assistant Chair of Social Relations*

- Managed a budget of \$5,000 to plan social events and recruitment activities for the Fraternity.

## 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.

### Sudoku Solving AI (Python)

- Developed a backtracking algorithm to solve any valid NxM Sudoku board in optimal time.
- Algorithms and heuristics used include forward checking, ARC consistency and least constraining value.

### 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.

### Authentication Service (C++)

- Implemented an authentication service on a Linux virtual machine which stored username and password combinations.
- The key-value pairs were stored in a hash map which was implemented using a custom-made hash and rehash function.