

# Michael Cai

Software Engineer

Scottsdale, Arizona  
[linkedin.com/in/michael-r-cai](https://www.linkedin.com/in/michael-r-cai)

Michael Cai is a software engineer with three years of professional experience, two years of academic research experience, and a Master's degree in computer science. He has worked in microservice development and has a passion for building out CI/CD processes and internal tooling.

## EXPERIENCE

### AVEVA (Formerly OSIsoft) — Software Developer II

March 2022 - PRESENT

- Worked on core infrastructure microservices and libraries for AVEVA Data Hub (Formerly known as OSIsoft Cloud Services).
- Developed components for an internal tool to migrate customers between live production environments of two products.
- Worked on creating developer microservice templates to transition teams from Service Fabric to Kubernetes development.
- A key contributor to the team's shared CI/CD and operations based work. Regularly creating and maintaining pipelines for automated security scanning, build processes, and deployments.
- Created shareable IaC Bicep modules for setting up SQL Servers with standardized authentication using Managed Identities.

### Arizona State University — Graduate Services Assistant

January 2021 - December 2021

- Lead TA for two courses, Algorithms in Computational Biology and Introduction to Theoretical Computer Science.
- Designed a project for an introductory machine learning module.

### OSIsoft — Software Developer Intern

Summer 2019 & Summer 2020 & Summer 2021

## EDUCATION

### Arizona State University — MS in Computer Science

January 2021 - December 2021

- Thesis - An Application of Attention for the Prediction of TCR-Epitope Binding Affinity

### Arizona State University — BS in Computer Science

August 2017 - December 2020

- Graduated from Barrett, The Honors College

## SKILLS

C#  
Python  
Bicep  
Kubernetes  
Helm Templating  
CI/CD YAML Pipelines  
Azure  
.NET Development  
Entity Framework for SQL Server and CosmosDB  
Unit Testing  
Git

## TOOLS AND PROCESSES

Agile Development  
Visual Studio  
Azure DevOps

## AWARDS

Moeur Award Awarded to undergraduate students who completed their degree with a 4.0 GPA in under 8 semesters.

## PUBLICATIONS

"ATM-TCR: TCR-epitope binding affinity prediction using a multi-head self-attention model" - Cai M, Bang S, Zhang P, Lee H. *Frontiers in Immunology*. July 6th, 2022.