

# Adrian Ferenc, PhD

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## SUMMARY

Developer, educator, and mathematician with a PhD eager to understand, break down, and creatively solve complex, technical problems for a tech-forward organization.

## CORE SKILLS

- Javascript, Python, Mathematica, Typescript
- SQL and NoSQL Database Management
- Frontend React and Django Development
- Backend/API Development and Design
- SCRUM/Agile
- CI/CD and Git
- AWS/Serverless Technologies
- Technical Communication To Technical and Nontechnical Stakeholders

## EXPERIENCE

### **Aqueous Asset Inc.**

Remote

#### **Full Stack Software Engineer**

December, 2021 - July, 2022

- Help roadmap, design, and implement features on both the frontend and backend
  - On the frontend: design React.js components; maintain, improve, and optimize functionality and layout from stakeholder feedback
  - On the backend: design Node.js/Express.js REST APIs; implement authentication and authorization; troubleshoot and debug cloud based microservices of a SaaS product
- Harvest and refine data; build interactive data visualization tools on the frontend and data-informed mathematically-intensive algorithms on the backend
- Handle CI/CD-related responsibilities, including reviewing code, merge requests, and deployments to cloud based environments
- Act as liaison between engineers working in the front and back ends and perform any duties that require work in both environments
- Collaborate with technical and nontechnical stakeholders about new features, functional and computational improvements, mathematics, architecture, and user interface

### **The Waverly School**

Pasadena, CA

#### **Math Teacher**

February, 2016 - July, 2020

- Teach math and programming classes ranging from beginning high school to college equivalent; develop curriculum for eight different courses by designing assignments, assessments, and course material; advise the American Mathematics Competitions (AMC) club; provide semi-annual narrative feedback for an average of 60 students per semester
- Serve as Mathematics Curriculum Coordinator on a cross-divisional team of teachers and administrators for a school-wide reassessment of curriculum that established the school's mathematics scope and sequence for grades K-12
- Present several times a year at open houses and back-to-school nights; conference daily with students and semi-annually with parents; deliver speeches honoring students at senior graduations

### **University of California, Irvine**

Irvine, CA

#### **Math Lecturer & Teaching Assistant**

September, 2009 - September, 2016

- Teach, develop curriculum, and write assignments for over 20 lower- and upper-college level math classes with class sizes ranging from 15 to 120 students
- Manage teaching assistants and delegate responsibilities for the class

## EDUCATION

**SOFTWARE ENGINEERING IMMERSIVE PROGRAM**, August 2021, General Assembly

**DOCTOR OF PHILOSOPHY (PhD), MATHEMATICS**, August 2015, University of California, Irvine

**MASTER OF SCIENCE (MS), MATHEMATICS**, December 2011, University of California, Irvine

**BACHELOR OF ARTS, MATHEMATICS**, May 2008, Occidental College