

Tyler Gearing

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[Github](#) | [LinkedIn](#)

Extroverted Software Engineer who has been building out Node.js, Go, and Python systems and APIs for a global FinTech startup. My superpower is remembering your name and your favorite coffee ☺!

Industry Experience

Software Engineer - Integration

2019 - 2020

Synapse Financial Technologies, Inc. - San Francisco, CA

- Developed internal API **testing and automation** tools to identify, remove, and prevent **database** errors in over **1000** client objects
- Maintained client-facing libraries in **Python, Node.js**, and **Go** to improve integration with Synapse's API
- Audited technical documentation and README files to ensure accurate usage
- Reduced technical ticket volume **10%** by isolating errors and writing **efficient** and **effective bug fixes**
- Fostered close relationships with our customers' engineers to provide **best-in-class** technical support and accurate **product knowledge** to ensure best practices for the Synapse API
- Built internal support for transferring **cryptocurrency** between different accounts including consolidation and check issuance
- Educated new clients on basic API usage and **RSA encryption** during onboarding

Web Developer

2017 - 2019

Sonoma State University - Center for Community Engagement

- Worked for over 6 months with the Sonoma State web dev team to define custom Drupal modules for transferring the **largest internal site** at sonoma.edu to the Drupal CMS
- Formatted custom **CSS and HTML** in Drupal for over 60 internal pages and over 200 blog posts to create an engaging new website that generated a **5% increase** in community partnerships

Technical Experience

Python Interpreter

2019

C++, OOP, Recursive Descent Parsing

- Developed a top-down recursive descent parser to build **abstract syntax trees** evaluated using **post-order evaluation** to support over 40 grammar rules and recursive function calls

Proxy Server

2018

C, Kyua, ATF, TCP/IP

- Developed a forking web proxy for the command line utilizing **TCP/IP** protocols and socket programming that could handle up to **2 Gbps** of web traffic
- Utilized **test-driven development** principles by writing over 30 unit tests using Kyua and the ATF testing framework

Amazon Alexa University Skill

2017

Java, JSON, PostgreSQL, Python, AWS

- Utilized **Agile** methods on a **SCRUM** team to develop a deliverable Alexa Skill that allowed users to access details on over **2000 events** across 120 clubs and 50 organizations

Education

Sonoma State University

2016 - 2019

Bachelor of Science, Computer Science

American River College

2014 - 2016

Associate's Degree, Mathematics - Associate's Degree, General Science

Coursework: Algorithm Analysis, Programming Language Design, Computational Theory, Database Systems Management/Web Framework, Android Framework, Operating Systems, Software Design Principles, Computer Networking, Differential Equations, Linear Algebra, Discrete Mathematics

Skills

Languages: Python, C++, C, HTML, CSS, Javascript, Go

Design Tools: Illustrator, Photoshop, InDesign, XD

Frameworks: Node.js, React + Redux, Flask, Django, Object Relational Model, API design, Microservices

Systems: MacOSX, Windows, Linux/Unix