

# Zachary Silver

>\_ SOFTWARE DEVELOPER

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## Experience

### Software Development Engineer

Amazon

Aug 2021 - Present

Seattle, WA

### Software Development Intern

DocuPhase

Jun - Aug 2019

Clearwater, FL

- Restructured our company's integration process which allows our software to work with external devices and applications.
- Doubled productivity by developing an application to streamline integrations, reducing average integration time by half.
- Completed multiple integrations under strict deadlines in parallel with the application's development.
- Worked closely with clients to understand requirements and ensure project quality.

### Software Development Intern

DocuPhase

Jun - Aug 2018

Clearwater, FL

- Collaborated with a team of support engineers to diagnose and repair issues with our process automation software.
- Developed a set of tools to optimize the support team's diagnostic process, minimizing informational requests to clients.
- Saved an hour in wait time on average per support ticket during initial contact stages as a result of the diagnostic tools.
- Matched weekly resolved ticket count with senior support engineers within one week of completing training.

## Projects

### 🔗 Twitch Chat Sentiment Analysis and Data Visualization Dashboard

Architected and developed a full stack application that integrates with Twitch to provide content creators a data visualization dashboard using sentiment analysis data computed from their channel's chat messages.

### 🔗 System Status Monitor

Created a resource efficient application to calculate system statistics such as cpu, memory, and disk utilization. Includes other useful information like current date, time, volume, and song. Outputs the statistics to my system's status bar.

### 🔗 Tic-Tac-Toe

Developed a Tic-Tac-Toe game played through the terminal with text-based graphics. Includes a single player mode with an AI adversary. The AI is implemented using the minimax algorithm with alpha-beta pruning to play optimally.

### 🔗 New Music Finder

Created a script to pull JSON data of recently played music from a radio station's website. Indexes songs and compares them to a local library of seen and saved music. Presents users with a file containing any new songs.

### 🔗 Calculator

Developed a feature rich calculator application for Android. Includes an efficient algorithm implementation for converting an infix mathematical expression to a postfix expression necessary for easy computation of complex expressions.

## Programming Languages

C C# Java JavaScript TypeScript Python Bash C++ CSS HTML Rust SQL WebAssembly

## Skills

React Angular AWS .NET Git TensorFlow Keras Unix/Linux Android Windows Agile Development  
Parallel Programming Distributed Computing Machine Learning

## Education

### California Polytechnic State University

B.S. in Computer Science

Jun 2021

San Luis Obispo, CA

### Cuesta College

A.S. in Computer Science and Mathematics

Jun 2019

San Luis Obispo, CA