



Ivy Duggan (they/them)

Full Contact Software Developer | Designing and Implementing Solutions

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Summary

"Full contact" because there isn't a part of software I haven't worked on! From hardware selection/procurement to quaternion math, Perl to Python, front-end to database, & websites to mobile apps, I have extensive experience with a variety of teams, technologies, and development styles. Building, maintaining, or designing, I enjoy all of it!

Experience

Concierge Software Design (csd.dev)

Las Vegas, Nevada (Hybrid)

Software Development Consultant

May 2017 → Present

Working for a large variety of stakeholders, from developing an idea start to finish for a nontechnical client to team augmentation & feature creation under a technical project manager, I've done the following:

- **[Most Recent]** Developed deployment pipeline for legacy T-SQL/.NET + Angular B2G API and site, including automatic comparison and updates between multiple environments with over 1000 stored procedures.
- Implemented body tracking software using bluetooth sensors, 3D & 2D cameras, and GPU-based computer vision. System had extensive optimization for therapy-based realtime feedback, multi-source data filtering, and post exercise frame-by-frame 3D angle analysis. Original prototype in Python, then later rewritten into a Rust application.
- Designed and developed software, firmware, and hardware for an IoT-enabled, in-house 3d printed, novel pill dispenser. Entire unit was housed in a "smart mirror" with voice commands and native bioauthentication (Windows and Linux).
- Built & managed internal Nomad cluster for distributed hosting of files, internal applications, AI services, and websites all on our own hardware at minimal cost.
- Inherited, fixed, and QA'd onboarding frontend for a C#/.NET PCI-compliant fintech company as part of on-site team augmentation.
- Working under a genetics professor at UNLV, refactored C/C++ DNA sequence analysis suite for University of Nevada, Las Vegas, reducing compute time from days to hours.
- Built automated processing and analysis pipeline for a genetic statistic processing system, allowing repeatable comparisons of large data sets.
- Developed realtime bowling scoring & data processing systems. Used extensive filtering and pattern analysis to account for legacy hardware at software at the center level.

Amazon Music

Seattle, Washington

Software Development Engineer (SDE 1)

May 2021 → September 2021

- Designed, developed, and delivered comprehensive statistical analysis & data visualization API & front-end in Python & Java to determine the efficacy of music recommendations.

Amazon Music (AFE)

Amazon Future Engineer Intern

Las Vegas, Nevada (Remote)

May 2020 → September 2020

- As part of my Amazon Future Engineer (AFE) scholarship, I worked at Amazon Music with a fellow intern/scholar to deploy an ElastiSearch cluster for dynamic searching of >300 million records, enabling internal teams to quickly investigate issues.

MER LV Labs

Application Developer

Las Vegas, Nevada

January 2012 → December 2014

- Designed & developed my own app, LazyHusband, which launched at SxSW V2V, where I spoke about its development.

Education

University of San Diego, California

Cognitive Science - Design & Human Interaction

Bachelor's of Science · 3.7

San Diego, California · 2019 → 2023

- Amazon Future Engineer Scholarship. Studied neuroscience & psychopharmacology abroad in Greece.

Skills

Git/SVM + CI/CD

Always

Docker

Multiple live systems

Terraform/Nomad

Live cluster & production jobs

AWS

Administration/provisioning

Wordpress

Custom themes

Shopify

Custom themes

AngularJS

Multiple legacy sites

React/React Native

Multiple legacy sites

Linux + MacOS

Development on & for

Windows

Development on & for

Typescript

5+ projects

Postgres

5+ projects

Bash/Zsh/Perl

5+ pipelines

HTML/CSS/SASS

5+ projects

Rust

3 projects

C#/.NET

3 projects

Android

3 apps

iOS

2 apps

C/C++

2 projects

Next.js

2 projects

Java/Kotlin

2 projects

Python

2 projects

Vue

1 project

SQL Server

1 project