Ethan **Miller**

SOFTWARE ENGINEER · WEB DEVELOPER

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"If you don't want the best, you probably won't even get close."

Summary

Hard-working computer programmer passionate with full stack UX/UI development. Seeking to use proven skills in collaboration, debugging, and coding to meet business needs and learn new technologies.

Technical Skills

PROGRAMMING LANGUAGES:

- C++
- Java

SCRIPTING LANGUAGES:

- Python
- Visual Basic

FRONT-END SKILLS:

- HTML5 (Semantic Markup, ARIA Support)
- CSS3 (Flexbox, Grid, BEM), SASS/SCSS
- CSS Frameworks (Bootstrap, Materialize)
- JavaScript ES6/7 & jQuery
- Angular
- Wordpress
- Parcel Application Bundler

BACK-END SKILLS:

- Node.js/Express
- Python/Flask
- Spring Boot
- ASP.NET
- Templating Engines (Pug, EJS, Jinja, JSP)
- Web Services (Netlify, AWS, Heroku)
- Apache Server / XAMPP

OTHER SKILLS:

- Version Control (Git/GitHub)
- Project Management (Agile, Scrum, Azure Boards)
- Unit Testing / TDD (JUnit)
- API Integration (JSON)
- RegEx
- Adobe Illustrator, Photoshop, After Effects

DATABASE:

- MongoDB & Mongoose, Atlas, Data Explorer, Compass
- SQL, SQL Server Management Studio, SQLite, MySQL Workbench
- PostgreSQL
- MS Access

Projects

BIBLE ACADEMY | 🐙 GITHUB | 👁 VIEW   Node.js/Express, MongoDB/mongoose, Pug, AWS

A Content Management System (CMS) that lets users upload articles, link to YouTube videos, create courses (similar to Khan Academy), organize resources into category hierarchies (similar to Evernote), highlight text and take notes (similar to Olive Tree), create point and segment markers for videos to include in saved categories (using Peaks.js), and more. The Audio Player features variable playback speed, volume, keyboard controls, and a download menu. There is a site-wide search bar, a user profile that allows users to upload their own photo, and an author modal on each resource that displays the author's bio, relevant links, and 6 most recent resources.

NORTHWIND TRADERS | 🔗 GITHUB | 👁 VIEW   Python/Flask, SQLite, Jinja, Heroku

A simple web application that interacts with an SQL database, allowing the user to view, sort, and filter items from an existing database. Items can be selected to query more information about the selected data entry.

BATCH FILE RENAME HELPER | 🔗 GITHUB | 👁 VIEW   Python, XlsxWriter, os

A Python console application that takes in a file path from the user and generates an xlsx document containing a list of file names from the given directory in column A. The user than adds the new name(s) to column C, and column D outputs cmd commands for the user to copy all at once, and finally paste into Command Prompt, renaming all the files at once.

GET MOVIE TITLE | 🔗 GITHUB | 👁 VIEW   Python, win32api, IMDbPY, pyperclip

A Python console application that (1) finds the volume label for a DVD in your computer's disk drive, (2) searches IMDb for a movie that matches the volume label, and (3) copies the movie title and year to your clipboard in keeping with the Plex file naming convention: Title (Year). Then you can paste it right into Handbrake. If no match is found, the user is prompted to manually enter the movie title.

GET IDEAL JOB LOCATION | 🔗 GITHUB | 👁 VIEW   VBA, API Integration

A Macro-Enabled Excel spreadsheet that determines where to apply for jobs based on their proximity to existing places of interest (family, church, etc.). It uses Google's Distance Matrix API to calculate the driving time between job sites and each place of interest.

TRADING JOURNAL | 🔗 GITHUB | 📊 DOCUMENTATION   VBA, API Integration

An Excel spread sheet incorporating pivot tables, array formulas, custom VBA functions with intellisense, and IEX Cloud's Financial Data API to collect and analyze institutionally traded stock and option data.

TAX CALCULATOR | 🔗 GITHUB | 👁 VIEW   C++, .NET CLR

A Windows Application that performs calculations for the Social Security Benefits Worksheet given the input fields as they appear on Form 1040.

ANIMATION EXPRESSIONS | 🔗 GITHUB | ▶ VIEW   MotionScript, Kinetic Typography

A collection of bounce and animation expressions created in After Effects CS3 using MotionScript (JavaScript subset). Created for kinetic typography videos featured on my YouTube channel.

EXPRESS.JS ON NETLIFY | 🔗 GITHUB | 👁 VIEW   Node.js/Express, Pug, Netlify

An example of how to host an Express.js app on Netlify using lambda functions and serverless-http.

Education ────────────────

Collin County Community College   *Texas, U.S.*
ASSOCIATE OF ARTS, GPA: 3.9   *Dec 2016*

Related coursework: Python, C++, SQL, Business Computer Applications, Calculus

TD **Technical Analyst** & Options Trader   *2017-2019*