Emma Cline

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EDUCATION

University of Washington Seattle   Seattle, WA
Bachelor of Science in Informatics, Minor in Mathematics, 3.87 GPA   *2011 – 2014*

DigiPen Institute of Technology   Redmond, WA
Towards overall degree at University of Washington, 4.00 GPA   *2009 – 2011*

Bellevue College   Bellevue, WA
Towards overall degree at University of Washington, 4.00 GPA   *2008 – 2011*

EXPERIENCE

Freelance Software Engineer   Aug. 2020 – Present
Self-Employed   *Remote*

- TypeScript Discord bots configured by JSON to manage large servers with an emphasis high performance.
- Providing proof of concept code for several University of Washington research projects.
- Computer Science tutoring for university students.
- Teaching workshops on modern web development.

Lead Senior Software Engineer   Jul. 2018 – Jul. 2020
Humble Bundle   *Remote*

- Promoted from Senior Software Engineer to Lead Senior Software Engineer II over the course of my employment.
- Led the platform team focused on site reliability engineering.
- Worked with product to define a plan to optimize the user funnel for the primary product Humble Monthly.
- Led the internationalization project for an 8-year-old application with minimal prior internationalization efforts.
- Integrated an OAuth login system for Facebook and Google into the existing user system.
- Executed a project to migrate all sessions to the newly required email or TOTP two-factor system.
- Helped define standards for representing dates, times, money, and percents in Python and JavaScript.

Lead Full Stack Software Engineer   Jan. 2018 – Aug. 2018
Committee for Children   *Seattle, WA*

- Led the replacement of a legacy, monolithic DNN platform to a high performance platform utilizing using React and .NET Core.
- Migrated user authentication to the IdentityServer4 OpenID identity provider.
- Incrementally transformed a series of untested stored procedures into a modern C# WebAPI.

Full Stack Software Engineer   Jul. 2013 – Dec. 2017
Trov   *Remote*

- Remote software development team where developers wrote unit and integration tests.
- Constructed an on-demand insurance platform for consumer items with C# and SQL.
- Developed an app for managing claims and insuring items with React and Angular.js.
- Built a business intelligence system for sending information to Trov's partners using Python.

Application Researcher   Jan. 2013 – Nov. 2013
University of Washington   *Seattle, WA*

- Lead developer for the TypeScript library that abstracted cloud storage services like Dropbox, Google Drive, and AWS.
- Contributed to a research paper on abstracting cloud storage.

Software Engineer Intern   Sept. 2012 – May 2013
*E*Trade*   *Seattle, WA*

- Worked on an international team to develop high performance stock trading apps implemented in Java
- Developed high-frequency trading features that supported options (contracts to buy a stock at a given price in a span of time).

Web Instructor and Engineer Jan. 2012 – Jun. 2013
University of Washington *Seattle, WA*
- Taught modern web development standards to University of Washington staff and students.
- Developed applications to manage courses and support tickets using Python and Django.

Software Engineer Intern Apr. 2012 – Nov. 2012
Rakuten *Seattle, WA*
- Scraped and normalized product information using Python.
- Worked with Overstock, Amazon, and Walmart APIs to gather product information and update listings.

Software Engineer Intern Apr. 2011 – Nov. 2011
SmiteWorks *Bellevue, WA*
- Worked on the FantasyGrounds chat feature using C.
- Led the development of a C app to import character data from competitors apps.
- Worked with the Steam gaming app store to publish updates and respond to customer feedback.

PROJECTS

Personal Website | *TypeScript, Next.JS, TailwindCSS, Docker, Node.js, MDX, React*
- Next.JS powered blog and resume website adhering to modern web development standards.
- High performance and no JavaScript support is enabled due to a hybrid model of server-side and client-side rendering.
- Blog using MDX files for easy maintenance and richly formatted posts.

Note Doctor | *TypeScript, Node.JS, SendGrid, Google Cloud, eslint, prettier*
- A CLI tool for triaging markdown files using front-matter headers sorted by priority, status, category, and due date.
- Sends a daily email digest of due and urgent tasks using the SendGrid Email API and Google Cloud VMs.

Discord Management Bot | *TypeScript, Node.JS, Docker, Discord.js, eslint, prettier*
- Discord bots written in TypeScript running on Node.JS for logging, music, GPT-2 chatting, role management, and security monitoring.
- Scales to a discord of any size and can be configured with JSON to support any number of discords.
- Bots are broken up into functions respecting separate of concerns to enable granular permissions for each bot.
- Code is broken up into highly reusable modules that can be pulled into any TypeScript project for customization.

GPT-2 API | *Python, Starlette, GPT-2, Tensorflow, Docker, Kubernetes*
- An API that allows requests against GPT-2 models to generate meaningful responses to any text prompt.

dstruct | *TypeScript, Grunt, Docker, Bower, Karma*
- Common data structures and algorithms for TypeScript.
- Based on Java collections, C# collections, and Google Java collections.

ShareTube | *TypeScript, Node.JS, Docker, React, eslint, prettier*
- Displays a video with multiple sources allowing the user to select which source is used.
- Implements a single shared comments thread across all sources for the video.

Autocomplete Comparison | *TypeScript, React, Redux, React Native, C#, Blazor*
- An implementation of the same search autocomplete similar to Google in React Native, React, and C# Blazor.

FlightSearcher | *C#, ASP.NET MVC, TypeScript, React, Redux, Webpack*
- An application to search for flights based on airports and datetimes.

TECHNICAL SKILLS

Languages: Bash, C, C#, CSS, HTML, JavaScript, Python, SQL, TypeScript
Frameworks: ASP.NET MVC, Flask, Next.JS, React, Starlette, Vue.js
Libraries: ASP.NET MVC, NumPy, pandas, PostCSS, TailwindCSS, TensorFlow
Databases: Elasticsearch, MSSQL, MySQL, PostgreSQL
Cloud Providers: Akamai, AWS, Cloudflare, DigtalOcean, Google Cloud, Microsoft Azure, Vercel
Developer Tools: cmake, Docker, ESLint, gcc, Git, Kubernetes, npm, Prettier, Visual Studio, VSCode, webpack, yarn
Operating Systems: ChromeOS, GNU/Linux, MacOS, Windows
Office Software: Apple iWork, Google Docs, LaTeX, LibreOffice, Microsoft Office
Professional Affiliations: IEEE Computer Society, IEEE Robotics and Automation Society, IEEE Communications, Association for Computing Machinery
Soft Skills: Constructive feedback, desire to listen and grow, effective concise communication, problem solving with minimal guidance