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 high performance
- Providing proof of concept code for several University of Washington research projects
- Computer Science tutoring for college students
- Teaching workshops on modern web development

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

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

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

- Lead replacement of a legacy monolithic DNN platform over to using React and .NET Core
- Migrated user authentication to the IdentityServer4 OpenID identity provider
- Incrementally rewrote 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 write 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 our partners using Python

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

- Lead developer for a JavaScript library which abstracted cloud drive APIs like Dropbox and Google Drive
- Taught staff and students to use and contribute to the library

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

- Developed Java stock trading apps with an international team
- Worked on features focused on high-frequency trading and options

Web Instructor and Engineer   Jan 2012 – Jun 2013
University of Washington   *Seattle, WA*

- Taught modern web development standards to UW staff and students
- Developed Python Django applications to manage courses and support tickets

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
- Lead 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, resume, and link shortener website powering my portfolio
- Hybrid static and server rendering model for initial load performance that switches to client side rendering
- Blog using MDX files for easy maintenance and richly formatted posts

Note Doctor | *TypeScript, Node.JS, eslint, prettier, SendGrid, GCP*
- A CLI tool for triaging markdown files with front matter by priority, status, category, and due date
- Sends a daily email digest of tasks due, and prioritized as urgent using SendGrid and GCP VMs

Discord Management Bot | *TypeScript, Node.JS, Docker, Discord.js, eslint, prettier*
- Discord bots written in TypeScript for Node.JS to manage administrative functions of a feature
- Scales to any size of discord server and can be deployed via Docker on any cloud platform
- Bots are broken up by function to enable isolated permissions instead of the monolithic administrative function
- Configured with JSON and allows for separate testing and production discord
- 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*
- API that allows requests against any GPT-2 model

dstruct | *TypeScript, Grunt, Docker, Bower, Karma*
- Data Structures and Algorithms for TypeScript
- Based on Java and C# Collections, and Google Guava

ShareTube | *TypeScript, Node.JS, Docker, React, eslint, prettier*
- Sharing a redundantly uploaded video across several video services
- JSON configuration of video that can be loaded via url or as a query param
- Unique chat rooms for each JSON configuration video

Autocomplete Comparison | *TypeScript, React, Redux, React Native, C#, Blazor*
- An implementation of a search autocomplete similar Google
- Comparing React Native, React Redux, and Blazor

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

CheckOut | *C#, ASP.NET MVC, Docker*
- An API to manage a store inventory and allow customers to checkout items

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C#, Python, HTML, CSS, SQL, C, Bash
Frameworks: Next.JS, React, Vue.js, Flask, Starlette, ASP.NET MVC
Libraries: TailwindCSS, PostCSS, pandas, NumPy, TensorFlow, ASP.NET MVC
Databases: PostgreSQL, MSSQL, MySQL, Elasticsearch
Cloud Providers: AWS, GCP, Azure, Vercel, DigtalOcean, Cloudflare (workers, CDN, DNS), Akamai
Developer Tools: VSCode, Visual Studio, Git, Docker, Kubernetes, yarn, npm, webpack, ESLint, Prettier, cmake, gcc