

Emma Cline

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EDUCATION

University of Washington Seattle <i>Bachelor of Science in Informatics, Minor in Mathematics, 3.87 GPA</i>	Seattle, WA 2011 – 2014
DigiPen Institute of Technology <i>Towards overall degree at University of Washington, 4.00 GPA</i>	Redmond, WA 2009 – 2011
Bellevue College <i>Towards overall degree at University of Washington, 4.00 GPA</i>	Bellevue, WA 2008 – 2011

EXPERIENCE

Freelance Software Engineer <i>Self-Employed</i> <ul style="list-style-type: none">TypeScript Discord bots configured by JSON to manage large servers with high performanceProviding proof of concept code for several University of Washington research projectsComputer Science tutoring for college studentsTeaching workshops on modern web development	Aug 2020 – Present Remote
Lead Senior Software Engineer II <i>Humble Bundle</i> <ul style="list-style-type: none">Promoted from Senior Software Engineer to Lead Senior Software Engineer II over the course of my employmentLead the platform team focused on site reliability engineeringWorked with product to define a plan to optimize the user funnel for our monthly productLead the internationalization project for an 8-year-old application with minimal prior internationalization effortsIntegrated an OAuth login system for Facebook and Google into our existing user systemPlanned a project to migrate all sessions to the newly required email or TOTP two-factor systemHelped define standards for representing DateTimes, Money, and Percents in Python and JavaScript	Jul 2018 – Jul 2020 Remote
Lead Full Stack Software Engineer <i>Committee for Children</i> <ul style="list-style-type: none">Lead replacement of a legacy monolithic DNN platform over to using React and .NET CoreMigrated user authentication to the IdentityServer4 OpenID identity providerIncrementally rewrote a series of untested stored procedures into a modern C# WebAPI	Jan 2018 – Aug 2018 Seattle, WA
Full Stack Software Engineer <i>Trov</i> <ul style="list-style-type: none">Remote software development team where developers write unit and integration testsConstructed an on demand insurance platform for consumer items with C# and SQLDeveloped an app for managing claims and insuring items with React and Angular.jsBuilt a business intelligence system for sending information to our partners using Python	Jul 2013 – Dec 2017 Remote
Application Researcher <i>University of Washington</i> <ul style="list-style-type: none">Lead developer for a JavaScript library which abstracted cloud drive APIs like Dropbox and Google DriveTaught staff and students to use and contribute to the library	Jan 2013 – Nov 2013 Seattle, WA
Software Engineer Intern <i>E*Trade</i> <ul style="list-style-type: none">Developed Java stock trading apps with an international teamWorked on features focused on high-frequency trading and options	Sept 2012 – May 2013 Seattle, WA
Web Instructor and Engineer <i>University of Washington</i>	Jan 2012 – Jun 2013 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

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

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

GPT-2 API | *Python, Starlette, GPT-2, Tensorflow, Docker, Kubernetes*

- API that allows requests against any GPT-2 model

Autocomplete Comparison | *TypeScript, React, Redux, React Native, C#, Blazor*

- An implementation of a search autocomplete similar Google
- Comparing React Native, React Redux, and Blazor

dstruct | *TypeScript, Grunt, Docker, Bower, Karma*

- Data Structures and Algorithms for TypeScript
- Based on Java and C# Collections, and Google Guava

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, DigitalOcean, Cloudflare (workers, CDN, DNS), Akamai

Developer Tools: VSCode, Visual Studio, Git, Docker, Kubernetes, yarn, npm, webpack, ESLint, Prettier, cmake, gcc