

# Emma Adams

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## EDUCATION

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

## EXPERIENCE

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<b>Senior Software Engineer</b> <i>Hewlett Packard Enterprise</i>	Jan. 2024 – Nov. 2024 <i>Remote</i>
<ul style="list-style-type: none"><li>• Worked full stack on a greenfield RAG evaluation and deployment service which primarily used Go, Python, and TypeScript, React, kubernetes, Postgres, Milvus, and Redis.</li><li>• Lead the RAG evaluation React frontend project. Evaluation streamed DeepEval results in real-time with WebSockets to help compare RAG actual output to expected output.</li><li>• Helped define the frontend architecture into core components reused across the app with tools like vite, eslint, prettier, storybook, jest, playwright, orval, zod, and msw</li><li>• Implemented performance critical features in a JupyterLab extension for managing large data-driven pipelines training LLMs.</li><li>• Worked closely with product managers and designers to deliver stories sometimes requiring presentations to stakeholders and technical design documents.</li></ul>	
<b>Principal Software Engineer</b> <i>Devoted Health</i>	Feb. 2021 – Apr. 2023 <i>Remote</i>
<ul style="list-style-type: none"><li>• Remote role working with Go on the backend and TypeScript React on the frontend.</li><li>• Drafted stories for a React customer service app by participating product design meetings and developed them until release.</li><li>• Scaled ETL pipelines that had to meet the demands of fast user growth.</li><li>• Lead project redesigning the RISK engine which is the primary revenue stream enabling claim reimbursement by the US government.</li></ul>	
<b>Freelance Software Engineer</b> <i>Self-Employed</i>	Aug. 2020 – Jan. 2021 <i>Remote</i>
<ul style="list-style-type: none"><li>• Contract work building APIs and React web applications for small to mid-sized companies.</li><li>• Computer Science tutoring and classes for teaching university students web development.</li></ul>	
<b>Lead Senior Software Engineer</b> <i>Humble Bundle</i>	Jul. 2018 – Jul. 2020 <i>Remote</i>
<ul style="list-style-type: none"><li>• Promoted from Senior Software Engineer to Lead Senior Software Engineer II of the Platform team.</li><li>• Developed features for a Python and React e-commerce website that averages 26 million views per month.</li><li>• Executed a project to migrate all sessions to the newly required TOTP two-factor system with OAuth Google login.</li><li>• Led the internationalization project for an 8-year-old application and educated other developers on how to use these tools.</li><li>• Managed 5 direct reports including regular one-on-one meetings, code reviews, and pair programming.</li></ul>	
<b>Lead Full Stack Software Engineer</b> <i>Committee for Children</i>	Jan. 2018 – Aug. 2018 <i>Seattle, WA</i>
<ul style="list-style-type: none"><li>• Led the replacement of a legacy, monolithic DNN platform to a high performance platform utilizing using React and .NET Core.</li><li>• Migrated user authentication to the IdentityServer4 OpenID identity provider.</li><li>• Incrementally transformed a series of untested stored procedures into a modern C# WebAPI.</li><li>• Developed a TypeScript React frontend powered by an ASP.NET Core C# backend to track the delivery of coursework to students.</li></ul>	

## Full Stack Software Engineer

Jul. 2013 – Dec. 2017

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Remote

- Remote software development team where developers wrote unit and integration tests.
- Constructed an on-demand insurance platform for consumer items with ASP.NET C# and SQL.
- Developed an app for managing claims and insuring items with a Typescript React frontend and ASP.NET C# backend.
- 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

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### 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.
- 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.