

Christopher Eberly

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EXPERIENCE

WithUno, Inc. (uno.app)

January 2021 - July 2023

Founding Engineer

- Uno was founded with the goal of making security on the Internet easy for everyone.
- As a founding engineer, my role has been to architect and build most of the core server side software as well as the primary web extension used to interact with Uno's service.
- Building the Rust-based server required getting up to speed with Rust, the language, as well as the essential cryptographic technology used in a modern, end-to-end encrypted service for storing customers' most sensitive data. This work was done by myself and another founding security engineer.
- Uno's core Rust-based library also contains components that are compiled to Web Assembly and shared between our different projects. This work required me to learn how to use Web Assembly in Rust and in the browser.
- Uno's web extension allows customers to interact with their secured information. The extension is built in Typescript and required learning again the Typescript dialect as well as understanding how to build a web extension in a secure way. This work was done by myself and another founding UI/UX engineer.
- Uno's web extension also features a "form helper" that allows, for example, automatically filling in credentials and in some cases automatically updating a customer's information on specific sites. This required mastering several browser APIs that I had not previously worked with.

Unite Us, Inc. (formerly Staple Health, Inc.)

March 2020 - January 2021

Senior Software Engineer, Data

- Unite Us acquired Staple Health in March 2020. Unite Us is one of the leading companies combining social care with traditional healthcare in the US.
- As a senior engineer on the data team, I help lead the effort to modernize our data infrastructure and build scalable reporting and predictive tools for customers.

Staple Health, Inc. (staplehealth.io)

Aug 2017 - March 2020

Co-founder and Head of Technology

- Staple Health was founded with the goal of improving the lives of both patients and providers using technology that exists today.
- We provide consulting services to healthcare partners and our predictive analytics software is available for use by organizations who want to better understand social determinants of health (SDOH).
- As the Head of Technology, I direct all the technology decisions and do the majority of the programming on our projects.

DistroKid (distrokid.com)

April 2019 - Ongoing

Sysops Consultant

- Distrokid is one of the most popular services for musicians to distribute their music to online stores and streaming platforms.
- As a sysops consultant, I am responsible for maintaining best practices on a large Amazon Web Services (AWS) deployment. This includes formulating and executing plans for backup and disaster recovery, application and network monitoring, security, deployment, and on-call troubleshooting of production issues.

Conservation Metrics, Inc. (conservationmetrics.com)

June 2017 - January 2021

Software Engineering Contractor

- Conservation Metrics uses deep learning and other statistical measures to analyze huge amounts of raw audio data for biodiversity monitoring projects.
- My role has been to help port an existing tool for auditing the results of the machine learning models from a stand-alone Matlab application to a web-based (python/frontend javascript) tool hosted on Microsoft Azure.
- I have also helped with the deployment of the existing machine learning pipeline again from an on-premise server to Azure, utilizing modern best practices for application deployment.
- In this role, I report directly to the CEO and Chief AI developer.

Super Deluxe (superdeluxe.com)

September 2015 - June 2017

Software Engineer, DevOps Engineer

- At SuperDeluxe I managed all DevOps and server-side engineering for a team of 8 developers.
- Wrote and manage our backend platform for collecting and displaying stats from Facebook and YouTube. This includes realtime data collected during live Facebook videos.

- Over the last year, we have developed novel ways of tracking engagement with our videos in support of our creative team of about 80 people.
- Using (primarily) Docker and Amazon's Elastic Container Service (ECS) we have developed a workflow to quickly spin up one-off websites in support of our own creative work.
- I have also led the effort to develop several "Creative AI" projects using several of the popular deep learning frameworks. Examples include a television script generator based on a popular (but off the air) show about nothing, a political email generator, as well programmatically generated images and work on video summarization. This work is being used internally in support of video projects and analytics, respectively.

Media Gobbler, Inc. (Gobbler)

January 2014 – September 2015

Software Engineering Lead, DevOps Engineer

- At Gobbler I manage and lead the DevOps engineering effort as well as acting as the lead server-side engineer for a small team of Ruby on Rails programmers.
- I have also continued to act as a lead engineer on the development of the Gobbler Marketplace, a new initiative to give audio plugin manufacturers and customers unprecedented access to one another.

Adobe Systems (formerly Typekit, Inc.)

October 2011 – February 2013

Software Engineer

San Francisco, CA / Los Angeles, CA

- Continued to work on the data warehouse log-processing and analytics system; including training additional employees to help scale and support the large increase in traffic resulting from the acquisition.
- Continued to solely manage a "self serve" origin server for select enterprise clients' own file serving networks.
- Continued to manage content distribution network (CDN) vendor relationships along with an existing team at Adobe.

Typekit, Inc.

July 2009 – October 2011

Software Engineer, Operations

San Francisco, CA

- As the first non-founding employee, I helped to make early critical infrastructure and engineering decisions that allowed for a successful product launch and helped shape Typekit's reputation as the leading resource for fonts on the web.
- Built and managed the backend tools that allowed the Typekit web application to successfully synchronize with a content distribution network (CDN) that would eventually serve over 1 billion pageviews per month.
- Built and managed a data warehouse system to ingest raw CDN traffic logs that was used for analytics and payments.
- Built and maintained a "self serve" origin server for select enterprise clients' own file serving networks.
- One of two employees responsible for managing uptime and handling outages.
- Sole employee responsible for Typekit's CDN and DNS vendor relationships.

AdBrite, Inc.

October 2005 – February 2008

Software Engineer

San Francisco, CA

- Helped engineer the ad serving software and infrastructure that served over 1 billion pageviews per month.
- Led the "build and release" team that deployed code to hundreds of servers in 4 geographically diverse colocation facilities.
- Designed and built crucial backend reporting tools for both the sales and analytics teams.

Isolation Network, Inc. (iNgrooves)

December 2004 – July 2005

Intern Software Engineer

San Francisco, CA

- Worked as one of two technology employees to build a C#.NET-based music distribution and syndication system.

EDUCATION

Middlebury College, Middlebury, Vermont

Bachelor of Arts, Neuroscience, May 2004

Activities: Varsity Men's Cross Country Team 2000 - 2004, WRMC 91.1 Middlebury College Radio DJ 2002-2004

RELATED SKILLS AND INTERESTS

- Expertise in Linux/Unix network and systems programming; web and rpc servers; git-based version control; (+)SQL databases, AWS/GCP/Azure suite; container services such as Docker and Kubernetes.
- Javascript/Typescript/NodeJS, frameworks such as React/Redux/d3 and HTML design and standards. Strong proficiency in the Web Assembly API and library ecosystem.
- Proficiency in Rust server application programming.
- Proficiency in C server application programming.
- Expertise in Python and the associated scientific computing packages such as numpy, pandas, scipy as well as current deep learning frameworks including PyTorch and Tensorflow.
- Geographic Information Systems (GIS) software experience on former projects and more recently with geographic health-care data.

VOLUNTEERING EXPERIENCE

- As an alumni of Middlebury College, I participate in several mentoring projects including formal technical interview practice programs with students, as well as informal career mentoring through a number of channels. I also serve as an Alumni Admissions Program representative for potential incoming high school students.