

Dave Jimison

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Full Stack Engineer

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About Dave

Dave has spent twenty years leading innovation in tech, cultivating an expert knowledge of technology and creative culture. Previous clients include such as from Vice, MTV, and, Spotify. His work has been cited in CNN, BBC, and the The Colbert Report. Dave's 20 years experience have made him well versed at leading cross-disciplinary teams, and delighting stakeholders and clients by exceeding expectations.

Technical Knowledge (5+ years experience on underlined, 2+ on all others)

Web: Javascript, React, Redux, PHP, HTML5, CSS3, Rest APIs, OAuth

Programming: Python, Java, C++

Cloud Services: AWS EC2/S3/Route53/RDS/CloudFront/Lambdas SQS, Google Functions/Storage/Authentication

DB: MySQL, PostgreSQL, MongoDB, Google Firebase

AI/ML: Image text generation, natural language processing, recommendation algorithms

Education

University of Washington	Certificate in Machine Learning	2021
Georgia Tech	PhD in Digital Media	2015
Carnegie Mellon	Masters of Entertainment Technology	2004
Ithaca College	BFA in Film, Photo, Visual Arts	1998

Relevant Experience

Technical Product Manager & Research Scientist **Agency Enterprise** 2022 - present

Lead 4-7 person development teams building web based tools, integrating with machine learning and web3. Time split between code development, team management and product development. Directly interface with clients throughout process from sales pitch through product deliveries.

- Designed and developed software scraper that integrates with custom NLP models to parse product development announcements into a content management system for data analytics company
- Managed a chain agnostic white label marketplace for NFT sellers to compete with OpenSeas
- Researched and built POC an AI image generation system integrating with both Dalle 2 and Stable Diffusion to generate user directed prompts with consistent style results

Software Development Engineer II **Meredith** 2019 - 2022

Develop mobile and web applications in React for the Meredith owned product COZI, a family scheduling app.

- Integrate Google ad display throughout application
- Developed custom analytics library that enables communicating to multiple analytics solutions
- Responsible for multiple product features

Software Engineer **Promethean** 2018 - 2019

Promethean is a global market leader of education technology focused on interactive software and interactive blackboards. My role was development of their flagship software Inspire, along with a team of 5 other engineers. Primarily worked on overhauling the legacy code in both C++ (using Qt) and JS React OSX, Windows, and Ubuntu platforms.

- Rebuilt handwriting recognition software, dramatically reducing costs and improving quality
- Patent filed on a method of using the in-board audio system on the touch screens
- Coordinated tasks between teams in China and UK engineering teams

Relevant Experience (cont.)

- Founder, CTO psngr1 (start-up) 2015-17
- Travel tech focused upon capitalizing new airline distribution models for business travelers. In addition to coding, I architected the software system and managed entire product across the twelve person creative and development teams. Helped secure 1M in funding and acceptance into the Plug-n-Play Travel accelerator.
- Website in React, Node.js on AWS infrastructure
 - Google Firebase enabling realtime customer chat and monitoring of user path
 - Developed AI state machine that changed user prompts based upon existing knowledge of customer
 - Integrated multiple complex travel REST and SOAP APIs into a single normalized stream for front-end consumption
- Founder, CTO F# (formerly FEVER) 2009-15
- Bootstrapped digital agency from sole proprietorship to 60+ employees with offices in London, NYC, and Sydney. Ran product development from ideation to delivery, managing both tech and design teams. Selected client work:
- Spotify**
- Developed ad tech and produced thousands of interactive advertisements on Spotify mobile, web, and desktop platforms
- Playlist Generator. Generated music playlists based on user tastes and brand goals. Wrote software that generates 100s of playlists based on genre and client keywords, then provides to user based on their music listening history. PHP, JAVA
 - Dynamic Ad Creator. Invented method and built software to transform an audio ad into hundreds of versions with different background music that matched the same musical genre being listened to by the user. Built in Ruby, JS, and MAX/MSP
 - Music Semantic Analysis System. Invented and built method to gain semantic and behavioral data on music listening trends. Matched 20M+ song Spotify catalog to Youtube videos. Sourced number of listens, likes and
- VICE**
- The Creators Project. Built first iOS and Android applications for VICE. Cross-platform system (Android, iOS, Smart TV) that synchronized with their CMS, grabbing data and automatically converting appropriately into correct system. JS, Django, PHP
 - Interactive Event Display. Displayed realtime event photos paired with overlaid Twitter commentary from event attendees on event screens throughout. Presented to audiences in Brazil, USA, Europe, China, and Korea.
- MTV**
- Recommendation Algorithm Software. Sold algorithm matching to MTV that enabled pattern recognition across music behavior, determination of taste makers within particular genres, and dynamic content delivery. PHP, MySQL, JAVA
- Software Consultant The Cutting Corporation 1999-14
- Audiobook Editor for Visually Impaired. Automatic addition of National Library Services required interactive navigation to audiobooks based on book. Software used Dragon Dictate SDK to produce text version of narration, pattern matched to the text version of the narration, automatically generated XML based notation of interactive cues and generated correct file formats. JAVA, JS, HTML
 - Audiobook E-Reader. Software synchronized audio narration to text version, allowing user to switch between formats at the word level. JS, Canvas, HTML Audio
- Adjunct Professor Various Universities & Colleges 2004-16
- Taught various courses to undergraduate and graduate students in Web Development, Video Production, Computational Media, Mobile Design, and Graphic Design at Georgia Tech, The New School, Cornish College, and CUNY Staten Island.