












CONTACT

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EDUCATION

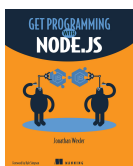
 Brandeis University 2009 - 2013
 B.S Computer Science
 B.S Neuroscience
 Foundations of Data Science 2019
 Quantic MBA 2020 - present

SKILLS

 JavaScript/Node.js Expert
 Vue.js/React.js Expert
 PHP Expert
 Ruby Advanced
 Python Advanced
 Java Advanced

Rails ♦ Express.js ♦ Nuxt.js ♦ Meteor.js
 Jest ♦ Chai/Mocha ♦ Jenkins ♦ Docker
 Git ♦ D3.js ♦ Jupyter Notebook ♦ Kafka

Get Programming with Node.js



- ♦ Published February 2019
- ♦ On University reading list
- ♦ Translated and sold in Korean and Japanese
- ♦ Over 5,000 copies sold
- ♦ Project code on [github](#)

Tiny Node Projects

EXPERIENCE

 Meta/Facebook New York

2021 - present

Senior Software Engineer     

- ♦ [High Messages Per Second](#), Messenger Project Lead
 - Modified core Messaging layer to handle new message volumes impacting millions of business accounts a month
 - Created utility classes to check for messaging volume status for Pages across three protocols: [Lightspeed](#), GraphQL, and Web HTTP deltas
 - Directed client (iOS, Android, and Web) UI changes to reflect server support for higher volume states
 - Managed deployment launch and experiments over a target audience of over 100 million Page accounts
 - Led cross-functional collaboration with Messaging infrastructure teams and organization-wide dogfooding
- ♦ [Re-engagement Lists](#), Server Tech Lead
 - Led architecture for backend caching, ML integration, and system design for Messenger thread sync protocol
 - Built new data structures for thread lists in Messenger and a mechanism for updating list contents asynchronously
 - Managed experiments and launch decisions for top-1000 yielding market business Pages, including three pivots and multiple interactions over launch
 - Project-managed Android UI and sync changes to display customer messaging threads to re-engage
- ♦ [Messenger Chat Entity](#), Project Lead
 - Led product design/project management for a highly visible tool to promote business Pages across Messenger and Business Suite
 - Designed and developed a real-time chatbot tool for partners in business messaging market, Meta's first implementation of Page-to-Page messaging
 - Extended server User Messaging hook to support Messenger Business
 - Managed design changes, chat message content discussions, and legal copy
- ♦ [Ads Creation/Extension Platform](#), Server Tech Lead
 - Led server implementation for ad creation and extension within the iOS and Android Messenger app; project targeting over \$100 million revenue gain
 - Headed experiment for ad creation interface on mobile and web surfaces
 - Built GraphQL API support for Ad account metadata, including ad demographics, impressions, reach, and payment information
 - Designed and developed server changes to support duplicating ad content and charging payments to run new ads from the Messenger surface
- ♦ [Suggested Replies](#), Server Tech Lead
 - Led server implementation of stored Message snippets for business Pages
 - Implemented new caching tables and sync queue for real-time updates across supported devices
- ♦ [Suggested As You Type](#), Server Tech Lead
 - Designed ML-driven Messaging suggestions across iOS and Android
 - Led experiment iterations to change from natural heuristics to ML model
 - Drove privacy conversations with content designers and legal for use in global markets
- ♦ [Org-wide Privacy Leader](#), Tech Lead
 - Worked with counsel, to scope projects affected by global privacy laws
 - Directed seven teams on privacy use cases and project infringements
 - Designed privacy mitigations for adjacent teams and developed code to mitigate over 50 privacy concerns across the org



❖ Publication 2023
❖ Project code on [github](#)

LANGUAGES

A English Fluent
א Hebrew Fluent

GIVING BACK

CodeNation New York 2020-present
❖ Teach weekly coding classes in under-resourced high schools

FIRST Robotics New York 2019-present
❖ Assist app development for STEM robotics competition

Bloomberg Kids New York 2018-present
❖ Design and teach annual day-long technical workshop to employees' children

LLS New York 2017 - 2020
❖ Volunteered 250+ hours to raised \$17k+ for research

GORUCO New York 2018
❖ Co-Organized Ruby conference; managed speakers, live stream

Code for Philly Philadelphia 2017
❖ Collaborated with local engineers to build free web resources for the city

Girl Develop It Philadelphia 2016
❖ Instructed multi-day Ruby workshops to promote technical diversity and equity

Little Stars School India 2013
❖ Developed English-learning executable games in Java and created [promotional mini-doc](#)

B Bloomberg L.P. New York

Senior Software Engineer



2017 - 2021

- ❖ **Draft Analyzer**, Project Lead
 - Architected Vue SPA permissioned application to poll Rails API and back-end Spring Boot Java services with an integrated Kafka event system
 - Integrated ML classification service and corresponding front-end application for dynamic content re-rendering with new document classification results
 - Reduced Vue app browser memory by 50% (120mb to 60mb) by refactoring Vuex reactivity usage and store getters
 - Improved legacy browser compatibility with custom JavaScript polyfills and webpacker asset bundle size
 - Developed initial proof of concept with internal dockerized services for quality assurance testing during development process
 - Trained and modeled NLP entity extraction library for 100k+ public transactional agreements and 4m+ company names/aliases; presented results to CTO
 - Led mentorship, on-boarding, and interviewing assignments for my team

- ❖ **Brief Analyzer**, Front-end Lead
 - Developed division's first Vue standalone application with Rails integration and file storage backed by Java and ML classification services
 - Eliminated continuous daily errors on SEC document rendering by rebuilding XML/HTML parsing logic
 - Developed collaborative-filtering recommendation system for litigation text using Python and Surprise ML library
 - Led UI/UX implementation meetings for product roadmap/ticket creation
 - Built internal ML database and notebook versioning PIP package CLI tool

- ❖ **Fraud Analytics**, Project Lead
 - Led full-stack fraud analytics Rails/D3 project with dynamic tables, responsive charts, and API integration with Solr aggregated results
 - Reduced XML styling logic by 60%, improving parsing efficiency by deleting 25% of referenced conditions and methods in document transformations
 - Architected site-wide permission-driven tour builder for new product walk-throughs using JavaScript and web components

- ❖ **Litigation Analytics**, Full stack engineer
 - Refactored print/download Java service to handle new API calls for judge analytics data
 - Designed custom D3 charts and Polymer component widgets to display dynamic court analytics
 - Collaborated with services to release ML-backed Points of Law product

Manning Publications New York

2016 - present

Author **JS**

- ❖ **Publication**
 - Support published content in [Get Programming with Node.js](#) and [Tiny Node Projects](#)
 - Teach Node web development in 34 fast-paced, practical, lessons on how to extend JavaScript skills to write back-end code for the web
 - Manage book forum and coordinate weekly editorial/marketing meetings
- ❖ **Workshops**
 - Present quarterly in-person and online Node workshops through Zoom, Twitch, and sponsored meetups in collaboration with Manning

- Curate code, repos, and tutorials for latest Node and JavaScript best practices
- ❖ University curriculum
 - Design university curriculum on book contents taught at [UC Denver](#)
 - Support content for [Brandeis University curriculum](#)



New York Code + Design Academy New York

2015 – 2017

Lead Developer/Academic Director  

- ❖ Teaching
 - Led web development intensive course in HTML, CSS, JavaScript, Ruby, and Rails, covering databases, API integration, testing and deployment in Philadelphia, NYC, and Amsterdam, teaching and connecting 100+ students with job opportunities
 - Designed Node intensive course, including code, content, and tasks
- ❖ Engineering
 - Managed technical hand-off and data transfer to Strayer University as point-person during company acquisition
 - Led agile development team of 4-8 in architecting, building, and deploying Rails application handling enrollment, payments, and site content
 - Developed Stripe-integrated payment system with customizable payment-installment system and round-robin internal sales tool
- ❖ Management
 - Co-managed Philadelphia coding bootcamp campus
 - Led technical Node workshops in collaboration with local businesses



Logorithms Design New York

2012 – present

Founder/Lead Engineer   

- ❖ Architect and deploy an average of two applications a year in Rails and Node, Vue, Nuxt, Express, and React
- ❖ Built domain reseller service with integrated API using Node and Express
- ❖ Design Rails and Node applications with Vue and AWS S3
- ❖ Manage contractors and remote development team across client projects



Klish Group, Inc. New Jersey

2014

Software Developer  

- ❖ Built components for large-scale corporate websites using HTML, CSS, XML, XSL, and JavaScript, and designed database query tools in Java
- ❖ Collaborated on-site with Wyndham, Visa, and AT&T engineers during months-long projects