

Dennis Drueck — Senior Software Engineer

Naperville, IL

[GitHub](#) | [Portfolio](#) | [LinkedIn](#)

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About

With 5 years of software engineering experience and 18 years in IT overall, I can readily excel in any environment. My diverse background spans multinational corporations like Tesla and E. & J. Gallo, as well as start-ups and freelancing.

I've created pragmatic solutions to numerous complex problems, prioritizing scalability and engineering efficiency. Currently, I'm improving data integrity in Tempus AI's DNA sequencing pipeline, streamlining complex data processing.

My commitment to continuous learning and growth empowers me to tackle increasingly challenging issues and deliver high-impact solutions.

Skills

Languages: TypeScript, JavaScript, SQL, Terraform, Python, Java, Bash, SCSS, CSS, HTML

Frameworks: Node.js, NestJS, React.js, Redux, Spring Boot, Express.js, Bootstrap, Tailwind

Databases: PostgreSQL, MySQL, MongoDB, Cloud SQL, BigQuery, RDS

Tools: GCP, AWS, Jira, GitHub, Concourse CI, Docker, Kubernetes, Jira, Postman, Chrome DevTools, Figma, VS Code, DataGrip

Topics: Agile, CI/CD, Job Processing, Socket, HTTP, REST API, Event-Driven, Microservice, Unit Testing, Performance Testing, TLS, SSH, DNS, Performance Optimization, Multithreading, Concurrency, PubSub, Messaging

Experience

Senior Software Engineer, Tempus AI (via Egen)

2023–Current

Environment: PostgreSQL, TypeScript, React.js, Node.js, Terraform, Git, GitHub, Jira, Concourse CI, Google Cloud Platform (GCP), Google Kubernetes Engine (GKE), Cloud SQL, AWS, S3, SNS, SQS

- Enhance release velocity and impact by identifying the most valuable features and persuading stakeholders to minimize scope creep.
- Optimize event processing between interconnected systems, eliminating costly delays and enhancing data integrity and system stability within a complex microservice architecture.
- Foster team skill development through effective mentorship and tactful, constructive feedback, aligned with organizational core values and engineering best practices.
- Lead large-scale deliveries by spearheading the scoping phase, prioritizing requirements, and defining objectives, timelines, and milestones.

- Conduct Root Cause Analysis (RCA) using various tools, including VS Code debugger, Splunk, GCP Console, AWS Console, DataGrip, and Chrome DevTools.
- Provide expertise in design patterns for CI/CD and containerization, employing multi-step builds in Concourse CI to improve replication for horizontally-scaled systems, and reduce time to deploy new builds by a factor of 10.
- Ensure compliance with application development and cloud security best practices, safeguarding patient and organization data privacy and PHI compliance.

Full-Stack Developer, Self-Employed

2021–2023

- Delivered end-to-end solutions for web apps, encompassing full-stack development, UI/UX design, SEO, and digital media, following Agile methodologies.
- Met product release deadlines by prioritizing high-value features through problem statement evaluation and requirement distillation in collaboration with product teams.
- Boosted client traffic and revenue by achieving top SERP rankings and enhancing user experience through optimized page speed, accessibility, and responsiveness.
- Accelerated feature delivery through iterative Agile sprints.
- Built automated CI/CD pipelines in GitHub for zero-touch deployment of latest changes.

Full-Stack Developer, Martial Arts Technologies | [Link](#)

2022–2023

Environment: PHP, JavaScript, MySQL, Laravel, Blade, Node.js, jQuery, Bootstrap, Bitbucket, Jira, cPanel, AWS Elastic Beanstalk

- Led design and implementation of solutions for workflow automation, geolocation, and image processing in collaboration with the CTO and product manager.
- Reduced cross-platform support requests by implementing responsiveness and input validation across 50+ web pages using PHP, Blade, jQuery, and Bootstrap.
- Improved SERP ranking and page speed through network and asset optimization strategies.
- Automated time-consuming tasks related to logo color extraction by scraping CDNs and analyzing images with JavaScript, Node.js, [color-thief](#) and [tinycolor2](#).

Full-Stack Developer, TrapMonkie

2021–2022

Environment: JavaScript, React.js, Redux, Redux Thunk, Node.js, Webpack, Jest, SCSS, Git, GitHub, Cloudflare Pages, Ethereum

- Created and maintained a single-page application to facilitate blockchain transactions in collaboration with the product manager and 1 additional developer.
- Delivered MVP in 1 week, and 2 major updates within 1 week of requirements approval.
- Imported real-time data and performed asynchronous transactions via Ethereum's JSON RPC API using [web3.js](#), providing error-proofing and ease-of-access.
- Optimized cross-platform user-experiences with responsive and adaptive design, lazy-loading, and asset optimization.

SaaS Interactivity Specialist, *Text2Drive*

2019–2021

Environment: JavaScript, Python, Bootstrap, Selenium, CSS3, HTML5

- Owned development, deployment, support, technical client relations, and in-house training related to all SaaS widgets deployed to 200+ auto dealership websites.
- Delivered exceptional user experiences, overhauling widget assets using JavaScript, HTML, CSS and Bootstrap, focusing on unifying visual identity with host sites.
- Reduced time-to-delivery by 50% by restructuring cross-company deployment pipelines.
- Enhanced client-experience with proactive communication and well-prepared proposals, backed by my expertise in HTML and CSS, as well as analytics and market research.
- Conserved 40 hours per month by automating toilsome tasks with Python and Selenium.

Education

FastTrack Developer Program, *Cook Systems* | [Certificate](#)

2022–2023

- Studied design patterns and developed full-stack applications using Git, GitHub, Java, Spring Boot, PostgreSQL, JavaScript, React.js, Node.js, CSS, and HTML.
- Met all deadlines and fulfilled client requirements while leading a team of 3 developers.
- Built multiple full-stack applications through 1-week sprints in Agile teams.
- Ensured version stability by reviewing, testing, and merging git branch pull requests.

Project: Twitter Clone API | [GitHub](#)

Environment: Java, PostgreSQL, Spring Boot, Maven, Spring Web, Lombok, MapStruct, JPA, JDBC, Postman, Git, GitHub

- Created a REST API web service with Java Spring, including 30 HTTP endpoints to CRUD data related to accounts, tweets, hashtags, likes, follows, replies, and reposts.
- Implemented services, data models, repositories, and controllers using Spring Boot and JPA, including data validation, error handling, and reusable functions.

Project: Spotify Artist Guessing Game | [Link](#) | [GitHub](#)

Environment: JavaScript, Node.js, React.js, React Router, Material UI, howler.js, Lodash, Git, GitHub

- Developed a stateful browser game, allowing users to play songs and guess the artist by fetching genres, artists, and songs from Spotify Web API.
- Implemented capability to play again with fresh data by creating configurable components and routes using React.js, Material UI, and React Router.
- Resolved edge cases for smaller genres through caching and query retries, manipulating and persisting data with HTML Web Storage and JavaScript.
- Enabled users to easily play and switch between songs with a single click by utilizing [howler.js](#) and React.js Hooks to control .mp3 playback and global volume.

Project: Company Management Portal | [GitHub](#)

Environment: Java, Spring Boot, Maven, Spring Web, Lombok, MapStruct, JPA, JDBC, PostgreSQL, JavaScript, Node.js, React.js, React Router, Postman, Git, GitHub

- Built a full-stack application that allows users to edit employees, announcements, teams, and projects using React.js, Java Spring, JPA, JDBC, and PostgreSQL.
- Clarified client expectations to ensure all features aligned with the customer's needs, creating distinct objectives for developers.
- Provided the front-end team with ample time to deliver a polished interface, distributing tasks effectively to finish 17 REST API web service HTTP endpoints in under 24 hours.

Bachelor of Fine Arts, *University of Illinois Chicago*

2012

- Studied web design, design thinking, visual communication and perception theory.

Certifications

FreeCodeCamp.org | [Certificates](#)

2021–2022

Each below certification included 300 hours of coursework and 5 certification projects.

- **Back-End and APIs** — Express.js, MongoDB, Node.js
- **Relational Databases** — PostgreSQL, Bash
- **Front-End Libraries** — React.js, Redux, jQuery, Bootstrap
- **JavaScript** — Data Structures and Algorithms
- **Python** — Scientific Computing
- **Responsive Web Design** — Semantic HTML5, CSS3

Additional work history and references are available upon request.