andré jessee

software engineer

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about me ▸

Full-stack software engineer experienced in designing, building and deploying robust, scalable and secure web applications to client specifications under tight deadlines.

projects ▸

BigDumbWeb.dev
My personal portfolio site where I share projects that I've built, and a blog that I use to document what I've learned in my path towards becoming a web developer. (GitHub repo)

RalphDonaldJessee.com
A web application I built to share stories my grandfather wrote in his later years. Features include a full blog with comments and tagging, picture hosting, and filtering and search functionality. (GitHub repo)

HomebuyerWithAHeart.com
A web application I built for a real estate investing group to gather leads and provide information to sellers. (GitHub repo)

NYCycle
A web application I built that uses geolocation technology to allow you to locate the nearest recycling bin in NYC. (Github repo)

TOEFL Speaking/Essay Grading Feature
A feature I built on top of Kaplan's web application to be able to grade speaking and essay student responses. (GitHub repo)

NYC Reservoir Data
A command line application that I built in Ruby to visualize to water levels of New York City's five main water reservoirs. (GitHub repo)

Head Up Inc
A web application I built for Head Up Inc. consulting company. (GitHub repo)

education ▸

Dev Bootcamp
Full Stack Web Development Training Program

George Mason University
Bachelor of Arts, International and Comparative Politics

work ▸

DevTech Systems, Inc · Software Engineer/Technical Project Manager   Arlington, VA · June 2020 to Current

Lead full-stack software engineer and technical project manager supervising 3-person engineering team. The team maintains, supports, and deploys DevTech's proprietary Monitor platform, a knowledge management information system to collect, aggregate, analyze, and visualize monitoring and evaluation data for USAID implementing partners working in Nigeria.

- Gathers requirements for new feature requests/changes/bug fixes from USAID and Monitor users, and translates into product roadmaps, detailed UX/UI designs, database schema designs, and scoped and estimated technical tasks.
- Designs, develops, and deploys code and APIs to implement these new changes in a test-driven development workflow. Built automated testing and documentation workflow for quality assurance using unit/integration/regression tests and OpenAPI specification for API documentation.
- Maintains GitHub repository of codebase and supports DevOps environments and workflow using AWS to ensure 99.99% uptime, data backup/redundancy, and security/identity/compliance protocols for Monitor.
- Designs and implements analytics metrics to measure success and product stability.
- Responds to all bug reports and user queries to ensure the platform is running smoothly.
- Plans, designs, and runs users training sessions to onboard new users and train users on new features.

Cambium Assessment · Software Engineer   Washington, DC · Dec. 2017 to June 2020

Worked on Cambium's Item Tracking System team, which developed and maintained two web applications - the Item Tracking System (ITS) and Item Authoring Tool (IAT). ITS provides a user interface to a database for items (assessment questions), and IAT provides an interface to allow users to author items. Features and improvements worked on include:

- Developed and maintained the new ITSx web application, an upgrade to the ITS system that allowed users to work on different elements of an item in parallel. This work involved creating a new Package Manager web API, written in C#/.NET, a modularization to manage all XML creation.
- Created a new locking protocols feature to manage the elements of the UI that a user is allowed to change based on permissions granted by ITS.
- Upgraded and maintained IAT's paper generation feature, which allowed a user to create and export PDF files for items to allow delivering a test in paper form.
- Built and maintained IAT's Standards alignment feature, to allow a user to align an item with educational content standards.
- Developed and maintained Cambium's external Authoring Tool, a web application that allows users (teacher) to author their own items.
- Wrote unit, integration, and regression tests in C# and Javascript to ensure software performed as designed and allowed for safer and more efficient refactoring.
- Used DevOps tools and workflows to help deploy and test new releases of our web applications.
- Fixed bugs, documented new features, communicated with and trained users.

Kaplan Test Prep · Web Content Engineer   New York, NY · Jan. 2016 to Dec. 2017

Built out Kaplan Test Prep International group's product offerings:

- Created a new test prep course for the Undergraduate Medicine and Health Science Admissions Test.
- Built new features and tools for TOEFL including an audio and essay grading feature using HTML5 and javascript to capture audio recordings and written essays from the students.
- Built an API using AWS Gateway and Lamba to validate grading data and write to the web application database for student review.
- Led the migration from our legacy platform to our new ATOM platform for multiple existing products, including the UK Clinical Aptitude Test (UKCAT), and the Test of English as a Foreign Language (TOEFL).

awards ▸

2016   Kaplan Test Prep - Kaplan Way Leadership Award for Student Success

technical skills ▸

LANGUAGES	Javascript, Ruby, C#
FRONT END	HTML5, CSS, CSS Grid/Flexbox, jQuery, AJAX, Fetch API, Bootstrap
BACK END	Ruby on Rails, C#/.NET, Node.js, Sinatra, Express
DATABASES	SQL, PostgreSQL, Microsoft SQL Server, Active Record
TESTING	Minitest, Capybara, RSPEC, Selenium, Jasmine, Mocha, XUnit
DEVOPS	Heroku, Amazon Web Services, AWS Elastic Beanstalk, AWS EC2, AWS RDS, AWS S3, AWS Lamba, Octopus, TeamCity, Circle CI, Docker
VERSION CONTROL	Git, Mercurial, GitHub, BitBucket
DATA PROTOCOLS	XML, XSL/XSLT, JSON