

# Jeremy Austin Clewell

## Full Stack Software Engineer

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Innovative full-stack engineer with 12+ years of experience developing for the web. I strive to place myself in an environment that will both humble and inspire me.

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## Qualifications

- Experience with entire software development life-cycle, architecting scalable platforms, database design/optimization and agile methodologies
  - Thrive in a distributed, collaborative development environment using Git/Github, Slack and Zoom for primary communication
  - Success in transforming model-based, machine-learning prototypes handed off from Data Scientists into real-world applications
  - Deep understanding of HTTP methods, RESTful architecture, both implementing and consuming custom APIs
  - Proficient in Relational and Document driven databases: MySQL, PostgreSQL, SQLite and MongoDB
  - Proficient in both Object-oriented & Functional programming paradigms
  - Practice Test-Driven-Development in both Django and React projects
  - Experience developing for/in AWS cloud platform, Vagrant (VMWare/VirtualBox), Docker
  - Ever-focused on end-to-end security, from the hardening of API endpoints to securing their front-end consumers
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## Technical Focus

- **Javascript**
    - ECMAScript 2016, ECMAScript 2017, Node.js
    - *Libraries/Frameworks*: React/Flux, Angular, Backbone, D3, HighCharts, Moment, LoDash, etc.
    - *Build/Test tooling*: Webpack, Babel, Gulp, Grunt, ESLint, Prettier, Jest, Mocha
  - **Python**
    - 2.7, 3.7
    - Django, Django Rest Framework, Flask
    - Numpy, ScypPy, Pandas, Matplotlib, Jupyter Notebooks, IPython, BPython
  - **SQL**
    - MySQL, PostgreSQL, SQLite, MongoDB
  - **HTML5/CSS3**
    - Bootstrap, Sass, Less
  - **Git/Github**
  - **Linux**
    - CentOS, Debian, Ubuntu
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# Experience

## **Monetate – 2014-current**

### *Software Engineer (product)*

- Core member of a small dev-team that launched Monetate's first real-time, model-based, machine-learning, predictive products. These products drove Monetate to the forefront of the intelligent personalization market. (Python, AWS Kinesis, Apache Spark, Django, React)
  1. Optimized A/B/N testing delivered via a non-contextual multi-armed bandit
  2. Individually personalized experiences delivered via a contextual multi-armed bandit
- Developed highly interactive, real-time analytics products for both of Monetate's machine-learning offerings (DRF, Druid, React)
- Contributed to products allowing for first party data to be utilized in Monetate's personalization software
- Part of a small team that developed intelligent, send-time/open-time, email recommendations based upon existing client product catalogs
- Significant contributor to a re-write of the platform's product-catalog ingestion process (Python, Apache Solr)
- Migrated primary platform database (MySQL) from ISO-8859 to UTF-8 codeset in production with zero down time
  - Consisted of evaluating toolsets and developing reasonable benchmarks to mitigate risk, as well as vetting the proposed procedures

## **Monetate – 2013-2014**

### *Frontend Engineering Director*

- Managed and mentored team of 4-6 frontend engineers
- Acted as technical team lead and liaison to client services for a large subset of retail clients
- Encouraged collaborative, team-driven, code-review sessions
- Hosted weekly learning sessions and fostered an environment of personal and professional growth
  - Interfacing with *all* of our client's chosen JS frameworks was mandated, so a broad knowledge of state-of-the-art frontend technologies/frameworks was an absolute necessity
- Helped drive the Monetate Platform to influence over 1/3 of online, black-friday purchases nationally

## **Monetate – 2012-2013**

### *Javascript Engineer/Lead Javascript Engineer*

- Wrote defensive, execution-time constrained, highly-optimized Javascript modules and hardened existing processes to confidently deploy into high bandwidth environments, ultimately serving millions of monthly unique sessions. Annual page views were well into the tens of billions
- Core contributor to internal Javascript library that drove collection of client metrics and

delivery of realtime personalized behaviors and A/B/N testing campaigns to 200+ retailer's websites, including but not limited to:

- Best Buy
- Brook's Brothers
- New Egg
- Hot Topic
- Office Depot
- J. Crew
- Patagonia
- The North Face

#### **Independence Blue Cross – 2006-2012**

##### *Senior Interactive Developer*

- Operated as lead developer within the Multimedia/Interactive – Communications division
- Responsible for all facets of front-end, kiosk and multimedia development
- Drove frontend development for IBC's flagship website, netting 30k unique visits monthly
- Provided technical guidance to the marketing and content teams
- Lead the department in technological innovation

#### **Independent Contractor – 2003-2012**

##### *Web Designer - Interactive Developer*

- Website design/development
- Multimedia development
- iOS development