

# Michael Alvarino

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## Experience

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### Informetric Systems, Software Application Engineer Winter 2014 - Current

- Software Design
  - Designed, wrote, and tested configuration tool for use at 4 client sites to give responsibility for configuration management to clients
  - Participated in user experience redesign of automated report generation tool
  - Reviewed code and architecture for data pipeline application pulling image data from a PostgreSQL database into the Informetric client application
- Internal Tools
  - Developed a migration tool to restore a database, create registry nodes, directory structures, and desktop shortcuts, shortening migration times by approximately 40 minutes for each use
  - Developed a report re-generation tool allowing users to filter automatically generated reports and re-trigger their creation
  - Automated “site rollups” with system scripting that backed up application files, registry settings, document archives, and databases, saving engineers hours of time spent on meetings
- Projects and Site Visits
  - Visited clients across the US for technical support, sales support, training, and engineering services
  - Acted as technical lead in 3 multi-month reporting engineering projects for pharmaceuticals producers and 4 rolled goods manufacturing projects
- Technical Support
  - Led technical support for 3 rolled goods manufacturers
  - Provided on-call assistance for 1 week each month

### Web Developer Fall 2015 - Current

- Timeline App
  - Developed Timeline application allowing users to sign up and create Timelines for people, places, and events
  - Created application server using Node JS and open source libraries like Express for server routing, Objection JS for database transactions, and Knex for database migrations
- Style Squad
  - Implemented a new site design for a WordPress blog, using CSS, HTML, and WordPress plugins

## Education

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### Columbia School of Professional Studies Fall 2015 – Spring 2016

Post-Baccalaureate Program – Masters in Computer Science Prerequisites

### Cornell University Fall 2009 – Spring 2013

Bachelor of Arts in Mathematics, Bachelor of Arts in Economics

## Skills and Coursework

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**Programming Languages:** C#, Javascript, SQL, Haskell, HTML, CSS, Java, C, C++

**Frameworks:** .NET, Node JS, Express, React, Redux, Sass

**Coursework:** Advanced Programming in C and C++, Data Structures and Algorithms, Computational Algebra, Econometrics, Linear Algebra, Multivariable Calculus, Game Theory

## Interests

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Rugby, Weightlifting, Cornell Alumni Ambassador