

GRANT NICHOLAS

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EDUCATION

September 2011-Present
Northwestern University, Evanston IL
B.S. in Biomedical Engineering and minor in Computer Science expected in 2015
Cumulative GPA: 3.74/4.00 Northwestern Dean's List ACT: 35

EXPERIENCE

September 2014-Present
KinetiKloud, Capstone engineering project, *Full stack developer and engineer*

- Designed and engineered a system to track exercise equipment usage remotely with an Arduino microcontroller, an accelerometer, and Bluetooth 4.0
- Developed the C software to interface with the Arduino and the Bluetooth chip
- Developed the web app and deployed the site @ kinetikloud.herokuapp.com
- Developed the data processing algorithm to convert accelerometer raw data into statistics regarding equipment usage with over 85% accuracy

June 2014-September 2014
Digital Bridge Solutions, Web development internship, *Developer intern*

- Utilized full LAMP stack for backend and JavaScript/jQuery and Sass for frontend
- Led development and deployment of the updated Digital Bridge company website including a fully responsive layout and case study display @ dbridgesolutions.com
- Migrated an existing client's website to a new server in order to save nearly 50% a year in hosting fees without a reduction in service quality
- Set up an FTP server, wrote shell scripts to automate database and media backups, and wrote scripts to export product transaction information for order processing

April 2012-November 2012
Northwestern University, iGEM engineering competition, *Student researcher*

- Engineered, modeled with Matlab, and constructed a bacterial probiotic to increase iron absorption in the body by over 100%
- Co-developed the team website @ 2012.igem.org/Team:Northwestern
- Won a gold medal at the U.S. competition for our design and engineering work

PROJECTS

June 2014-November 2014
Self-led project, Stat-tracking gaming app, *Co-programmer*

- Designed and co-developed a web-app to keep track of user stats, host games, and assign fair teams based on stats for the Dota2 gaming community
- Utilized the MEAN stack and deployed @ cihl-dota.herokuapp.com

LEADERSHIP

September 2013-Present
Northwestern, On-campus python tutor, *Tutor*

- Tutored students on introductory python concepts on a weekly basis

April 2014-Present
Northwestern, Associated Student Government [ASG], *VP of data analytics*

- Led data analytics committee, analyzed survey data using python, and presented results to ASG on how to use survey data to inform decision making

SKILLS

Programming	Proficient: Python, JavaScript, HTML/CSS Databases: MySQL, Postgres, MongoDB	Basic: C++, React.js, Sass, Ruby OS of choice: Ubuntu 14.04
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