

# Ian Macalinao

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## TECHNICAL SKILLS (in order of proficiency)

- Java, JavaScript, HTML/CSS, PHP, Python, Ruby
- Node.js, AngularJS, Bootstrap, jQuery, ReactJS, Gradle, Maven, MySQL, PostgreSQL, MongoDB, Redis
- Linux (Arch, Debian, Ubuntu), OSX, Windows

## EXPERIENCE

**Undergraduate Researcher**, UT Dallas Pain Neurobiology Research Group    October 2014 – Present

- Developing statistical analysis tools for mice/human genomes using NumPy, SciPy etc.
- Using Cheerio and BeautifulSoup to scrape data from gene databases

**Software Developer Intern**, Oakwood Software    June – November 2014

- Developed an AJAX file upload system using jQuery and PHP, replacing a 10-year-old legacy system

**Bukkit Developer**, Bireosoft    June 2011 – September 2014

- Created scalable modifications for Minecraft servers with thousands of players
- Reverse engineered obfuscated Java via reflection and a decompiler, enabling previously impossible game features

**Webmaster**, M & R Consulting Services, Inc.    2006 – 2012

- Created a denial management workflow system to handle sourced appeals for denied cases
- Used PHP, MySQL, and HTML/CSS

## PROJECTS

**GitHubFollowers.com** – Website to increase GitHub followers by having people follow each other; React and Node

**Preston** – Open-source Node.js framework to automatically generate REST routes for Mongoose models

**Kerve** – Exercise tracker using Kinect/AngularJS to determine body position and count reps; won Kinect/Mashery prizes at HackSC

**Backtesting.me** – Java application to test a stock's historical performance; won Bloomberg prize at HackTX

**Bordering.me** – Holographic display of conflict in the world built using WebGL; won Google prize at HackMIT

**Syncsp.in** – Realtime social jukebox application built on the Beats Music API using MEAN/Socket.io; won Mashery API prize at HackGT

**Stockular** – Chrome extension to view extended stock information when hovering over a ticker symbol on a webpage; won Bloomberg/Mashery prizes at MHacks

**TripBlaze** – Interactive trip planning web application using MEAN; won grand prize at Sabre Dev Studio Hackathon

## EDUCATION

Bachelor of Science, Computer Science  
University of Texas at Dallas, 2014 – 2016 (*expected*)  
2014 National Merit Scholar

## ACTIVITIES

- 2014 – Present – **Various hackathons**, including PennApps X, MHacks IV, HackGT, and HackMIT
- 2014 – Present – **Co-director** of HackDFW, DFW's first collegiate hackathon
- 2014 – Present – **Vice President** of UTD Hackers
- 2012 – 2014 – **Member/President** of TAMS Computer Science Organization