

# NICHOLAS R. EGAN

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*San Francisco University High School*

## COMPUTER SCIENCE/TECHNOLOGY

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### **CEO and FOUNDER, Egansoft (egansoft.com)** (Jan 2010 – Present)

#### ➤ **Software Projects**

- **Showy** (beshowy.com): a site that lets you play your presentations on the device of everyone in your audience.
- **Physics Sketchpad**: a physics simulation app for Android devices, available on the Google Play App Store
- **Text Inflator** (www.textinflator.com): a program that expands the length of a block of writing
- Developed other Android applications including **RealRandom**, **Gravity Ball**, and **Ad Gallery**, available on the Google Play App Store
- Created an artificial intelligence chat program designed to learn new phrases, building its vocabulary from user interaction

#### ➤ **Web Development**

- **qualityinnmontereybay.com**: Revamped website to improve the company's marketing program and increase revenue
- **ciseeducationfund.org**: Developed a website for a charity that provides assistance to underprivileged students pursuing technology degrees
- **teclawoffices.com**: Worked with Cooper Law to design and develop a site that provides an overview of their business and areas of expertise
- **econolodgeeseaside.com**: Redesigned website to reposition motel as high value and reasonably priced alternative to Monterey properties
- **marinyouthcourt.org**: Worked with an organization that gives juvenile misdemeanor offenders a second chance to make a site that can reach volunteers, sponsors, and troubled youth

### **HACKATHON PROJECTS**

- **HS Hacks II**: Developed Znapper, a cross-platform mobile game that lets you have category based selfie battles with friends
  - Winner of Most Creative grand prize
- **LAUNCH Hackathon 2015**: Made Brain Hacks, a cross-platform mobile application that measures the mental impairment of people who are tired, intoxicated, or concussed in comparison to their baseline through simple tests
  - Available on the Google Play App Store, and coming soon to iOS

### **RESEARCH INTERN, Massachusetts Institute of Technology (MIT)** (June 2014 – Present)

- Assisted Professor Randall Davis in the Multimodal Understanding Group at the MIT Computer Science and Artificial Intelligence Laboratory; focused on software to enable natural interaction with information
- Used sketch-based software to facilitate the analysis of psychological clock drawing tests

### **PRODUCT DEVELOPMENT INTERN, Product Development Team, HyTrust, Inc. (hytrust.com)** (Jun–July 2013)

- Responsible for Java code included in company's HyTrust Appliance 3.5 product, shipped in August
- Participated in final quality assurance testing and fixed bugs prior to product shipping

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### SCHOOL LEADERSHIP AND OTHER ACTIVITIES

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#### **STUDENT COUNCIL TECH LIAISON**, San Francisco University High (12)

- Elected by Student Council to provide technology solutions to University High Students

#### **FOUNDER and PRESIDENT, Hack Club**, San Francisco University High (11, 12)

- Founded club to bring together students interested in software development
- Developed web-based tools for Western Civilizations and Chemistry II courses, promoted by teachers as a learning aid for students. The tool for Western Civilizations simulated the challenging listening portion of tests, and the Chemistry II tool generated calorimetry problems.
- Created online tool to track class participation that was used by the teachers of Western Civilizations
- Collaborated in conceptualizing ideas for software applications and developing them as a team at hackathons

#### **Egansoft Technical Support and Computer Education**

- Provided technical support for setting up new computers, establishing home networks, and diagnosing computer issues
- Tutored a 3<sup>rd</sup> grade student with dysgraphia (learning disability resulting from difficulty in expressing thoughts in writing) to use his computer as a writing tool to overcome his handicap

### EDUCATION

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#### **San Francisco University High School**, San Francisco, CA (2011 – 2015)

Expected graduation: June 2015

- AP Scholar with Distinction (2014)
- National Merit Commended Scholar Award (2013)

#### **Harvard Summer School (SSP)**, Cambridge, MA (Summer 2014)

- Course: *Dynamic Web Applications*
- Course: *Introduction to Theoretical Physics*

#### **California State Summer School for Mathematics & Science (COSMOS)**, UC Santa Cruz (Summer 2012)

- Course: *Cryptography and Number Theory*

#### **Stanford University Education Program for Gifted Youth (EPGY) — Summer Institutes** (2009-11)

- Course: *Web-Based Honors Pre-Calculus with Trigonometry*, distance program (Summer 2012)
- Course: *Java and Robotics* (Summer 2011)

**Technical Skills:** Java, JavaScript (AngularJS, Node.js, jQuery, ionic), PHP (Laravel), Ruby, ActionScript, SQL (MySQL), HTML5/CSS3, Shell (UNIX, MS-DOS); Familiar with C/C#/C++, Python