

# NICHOLAS R. EGAN

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## EDUCATION

- MASSACHUSETTS INSTITUTE OF TECHNOLOGY (MIT)** (August 2015 – June 2019) Cambridge, MA
- Candidate for Masters of Engineering in EECS, concentrating in Artificial Intelligence
  - Candidate for Bachelor of Science in Computer Science and Engineering (6-3)
  - GPA: 5.0/5.0, Member of Tau Beta Pi Engineering Honor Society

## WORK EXPERIENCE

- ROBINHOOD, SOFTWARE ENGINEERING INTERN** (June 2018 – August 2018) Menlo Park, CA
- Currently interning at Robinhood on the backend team
- FACEBOOK, SOFTWARE ENGINEERING INTERN** (May 2017 – August 2017) Menlo Park, CA
- Developed tools for spam detection and prevention on the Site Integrity team
- AIRBNB, SOFTWARE ENGINEERING INTERN** (May 2016 – August 2016) San Francisco, CA
- Worked as a full stack software engineer on the booking team to develop new product features
- PRICELINE.COM, ANDROID DEVELOPMENT INTERN** (January 2016) New York, NY
- Worked on the mobile team to help develop their native Android app and integrate analytics
  - Priceline hackathon winner for Yo Priceline, which allows last minute hotel bookings through a chatbot
- DRAWBRIDGE, FRONT END ENGINEERING INTERN** (June 2015 – August 2015) San Mateo, CA
- Built interactive user interfaces and contributed to design, implementation, and code reviews
- MIT CSAIL, RESEARCH INTERN** (June 2014 – August 2014) Cambridge, MA
- Assisted Professor Randall Davis on software to enable natural interaction with information
- HYTRUST, SOFTWARE ENGINEERING INTERN** (Jun 2013 – July 2013) Mountain View, CA
- Responsible for Java software included in company's HyTrust Appliance 3.5 product
- EGANSOFT (egansoft.com), CEO and FOUNDER** (Jan 2010 – Present)
- Founded Egansoft as a software firm offering web design, Android applications, and educational tools

## Selected Projects

- **N Chainz** (nchainz.com): a decentralized cryptocurrency exchange featuring multi-blockchain consensus
- **Generalized GAN Reversal**: deep learning research project involving inference on GAN generators
- **Showy** (beshowy.com): a web app for playing presentations on the device of everyone in an audience
- **Text Inflater** (textinflator.com): a program that expands the length of a block of writing
- **Brain Hacks**: mobile app for measuring mental impairment, available for Android
- **Auditioner**: a site for online group auditions, API prize winner at LA Hacks 2015
- **Znapper**: mobile game for selfie battles, most creative grand prize winner at HS Hacks II
- **Physics Sketchpad**: an interactive physics simulation app, available for Android

## Technical Skills

- **Machine Learning**: Deep Learning, Natural Language Processing, Generative Models, Matrix Methods
- **Distributed Systems**: Consensus, Replication, Wait-Free Algorithms, Blockchain Development
- **Software Engineering**: Test Driven Development, Systems Engineering, Code Maintainability
- **Tools**: NumPy, PyTorch, TensorFlow, Scikit Learn, AWS EC2, Bash, Linux/UNIX
- **Languages**: Python, Go, JavaScript, Java, Ruby, PHP, Haskell, C, Solidity

**Related Coursework**: Machine Learning (6.867), Distributed Systems (6.824), Advanced Natural Language Processing (6.864), Intro to Machine Learning (6.036), Multicore Programming (6.816), Advanced Algorithms (6.046), Intro to Algorithms (6.006), Software Construction (6.005), Computer System Engineering (6.033), Matrix Methods (18.065), Computational Structures (6.004), Deep Learning (6.S191), EECS Lab (6.01), Math for Computer Science (6.042), Probabilistic Systems Analysis (6.041), Managerial Finance (15.401)

**Teaching Experience**: Lab Assistant for Fundamentals of Programming (6.009), Grader for Advanced Algorithms (6.046), Grader for Introduction to Algorithms (6.006)