

Kevin Yeh

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EDUCATION

- 9/2008 - 6/2012 **Stuyvesant High School** New York, NY
CS Average: 97.8 | NY Specialized High School Degree

Coursework: *Data Structures, Systems Level Programming, Computer Architecture, Networking, Computer Graphics*
- 8/2012 - 5/2015 **University of Texas at Austin** Austin, TX
G.P.A. 3.96 | Major 4.0 | Bachelor of Science: Computer Science (Anticipated)

Coursework: *Operating Systems: Honors, Artificial Intelligence: Honors, Distributed Computing, Algorithms and Complexity: Honors, Programming Languages, Game Technology, Computational Intelligence in Games Research, Applied Linear Algebra*

Awards: Walter Smith Scholarship and Tuition Exemption, Michael Nord CS Scholarship
Distinguished College Scholar (Top 4%), Ebay Hackathon 2012 - 3rd Place (Donation-Z)

WORK EXPERIENCE

- 5/2014 – 8/2014 **Amazon** | Software Developer Intern (Amazon Web Services) Seattle, WA
- 2/2013 – 1/2014 **Blastro Networks** | Android Developer Austin, TX
- Updated REST API, JSON parsing, and networking procedures for performance and portability to smartphones, tablets, and connected TV.
 - Rebuilt the UI/UX and deprecated code structure using Honeycomb / ICS APIs and libraries.
 - Developed custom resources, swipeable fragments, and variable-width GridViews with headers.
 - Implemented synchronized accounts, playlists, video ads, and Facebook integration.

PERSONAL PROJECTS

- Languages:** Experienced in Java and C/C++ (3+ years), Python, Perl, and Ruby (1 year); Proficient in Haskell, Javascript, NetLogo and Scheme.
- Technologies:** Experienced with Android/Gradle, OpenGL, Node.js/Jade, HTML5/CSS, JSON, and TCP/UDP. Proficient with Rails + AJAX, PostgreSQL, Paypal Adaptive Payments, Swing, and SDL APIs.
- Nov 2013 **CodeBench** - a StackOverflow variation that ranks solutions based on their benchmarked times. Built on Node.js and Bootstrap for HackTX 2013, and extended with Docker and RabbitMQ for FB Hack 2014.
- Sept 2013 **Genetic Fractals Research** – study on the evolution of aesthetically-pleasing fractals based on crowd-sourced testing and observational patterns in the mathematical structure of attractor fractals.
- October 2012 **Donation-Z** - a game built using PayPal's Adaptive Payments API for Ebay Hackathon 2012. Players compete on a weekly leaderboard for the chance to donate all profits of the week to their charity of choice.
- The Graphinator** - a graph visualizer and property finder developed to aid in graph theory education. Built in Java and Java Swing for HackTX 2012.

ACADEMIC PROJECTS

- February 2014 **Artificially Intelligent Pacman Agents**
- Implemented a variety of intelligent Pacman agents in Python, including classical search, A*, Minimax and Expectimax with alpha-beta pruning, and reinforcement learning with MDPs and Q-Learning.
- March 2013 **Six Degrees of Kevin Bacon**
- Built a Perl script to search through IMDB for the Bacon Number and associated path of any actor.
 - Added additional UI features and strengthened regex matching to be concise and 10% more efficient than the instructor's solution.
- June 2012 **Graphics Engine**
- Built a C graphics engine for rendering 2D curves and 3D shapes with various lighting algorithms.
 - Created a graphical Java Swing port for freehand drawing and transformations.
 - Implemented a motion description language to read and execute animation scripts.

SKILLS & ACTIVITIES

- 2008 - 2012 **Stuyvesant's Long Form Improv Troupe** - Experienced in short and long form improvisational games, structures, and techniques.
- 2004 - 2011 **Graphic Design** - Provided illustration and design services to online communities and their forums.