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## EDUCATION

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**MASSACHUSETTS INSTITUTE OF TECHNOLOGY** Cambridge, MA  
**M.S. in Artificial Intelligence (not completed)** *June 2014 – May 2015*  
**B.S. in Electrical Engineering & Computer Science** *September 2009 – June 2014*  
*Relevant Coursework:* Elements of Software Construction, Design & Analysis of Algorithms, User Interface Design, Introduction to Electrical Engineering & Computer Science I & II, Communicating with Mobile Technology, Machine Learning, Linear Algebra, Computer Graphics, Artificial Intelligence, Introduction to Inference, Microelectronic Devices & Circuits, Large-Scale Symbolic Systems, Advanced Topics in Communications, Society of Mind, Probabilistic Systems Analysis, Open Source Software Project Lab, Undergraduate Advanced Project

**ALFRED M. BARBE HIGH SCHOOL** Lake Charles, LA  
Unweighted GPA: 4.0 – Weighted GPA: 4.16 *August 2005 – May 2009*  
*Relevant Coursework:* Computer Technology Literacy, Statistics, Calculus BC

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## WORK EXPERIENCE

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**IDEAFLow, INC** Remote / San Francisco, CA  
**Co-Founder & CTO** *January 2015 – December 2016*

- Created a visual representation of relational data in a flow-chart style web interface
- Solely built initial version of software using Node.js, MongoDB, and Socket.IO
- Raised a \$1.8 million dollar seed round from initial application
- Implemented second version of software using React, Redux, Node.js, MySQL, and AWS
- Used Jenkins, Terraform, Ansible, Docker, and Selenium for automated deployment and monitoring
- Created algorithms for predictive analytics and assisted search applications

**PROJECTHUB** Cambridge, MA  
**CTO & Product Designer** *September 2014 – January 2015*

- Created a real time web application using Meteor.js and the Jade templating framework
- Implemented Kerberos authentication and hosted on mit.edu
- Pivoted to IdeaFlow, Inc

**MASSACHUSETTS INSTITUTE OF TECHNOLOGY** Cambridge, MA  
**Graduate Teaching Assistant – Artificial Intelligence** *September 2014 – January 2015*

- Taught weekly recitations of roughly 10 students the art of Artificial Intelligence
- Designed and debugged programming exercises in Python
- Created exam questions, gave weekly recitations, and held review sessions

**PINTEREST** San Francisco, CA  
**Backend Machine Learning Pintern (BlackOps Team)** *June 2013 – January 2014*

- Created a service for extracting features from websites using PhantomJS
- Experimented with Variable Order Markov Models for analyzing user behavior
- Implemented graphical interfaces for statistical analysis of user data using D3.js
- Helped create a realtime rule-based system for detecting and blocking spam and porn
- Used Qubole, Hive, and SQL for big data processing and Kafka for stream processing
- Managed servers with Puppet, AWS, Supervisor, Thrift, and Jenkins
- Received full-time offer at end of internship

**CVISION TECHNOLOGIES** Forest Hills, NY  
**Software Engineering Intern** *January 2013 – February 2013*

- Extracted features from images to improve OCR classification accuracy
- Experimented with Support Vector Machines and K-Means clustering algorithms for OCR using C++
- Developed an incremental model training framework in Python

**INTEL CORPORATION** Folsom, CA  
**3D Graphics Driver Team – Technical Intern (DevOps)** *May 2012 – August 2012*

- Headed a team of 3 to create a desktop dashboard application, web server, and web application
- Architected database structure for MongoDB and implemented a webserver to handle API calls
- Designed look and feel of dashboard application, and iterated based on feedback from users
- Created architecture to allow other teams to easily integrate content via an administrative page

## DANCE NETWORK

### CTO / Full Stack Developer

Boston, MA

March 2012 – May 2013

- Created a full stack web application for dancers using node.js and MongoDB

## INTEL CORPORATION

### 3D Graphics Driver Team – Technical Intern (DevOps)

Folsom, CA

May 2011 – January 2012

- Set up a Jenkins Continuous Integration server for driver testing
- Developed a framework for running driver certification tests robust to machine reboots
- Created a graphical desktop application to help parse driver log files

## MIT IS&T - ADAPTIVE TECHNOLOGY INFORMATION CENTER (ATIC)

Cambridge, MA

### Student Lab Technician

June 2010 – May 2011

- Used Nuance Omnipage, Dragon Naturally Speaking, and other recognition software to convert course material to a more accessible format to facilitate the education of students with physical disabilities
- Assisted MIT affiliates with computer-related injuries by evaluating their issues and suggesting alternative hardware, software, or methods of use depending on the problem
- Set-up and maintained over ten computers running Windows, Mac, and UNIX operating systems
- Handled server-side installation of software and learned valuable database skills

## ACTIVITIES & ORGANIZATIONS

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### MIT CONSTRUCTS

Cambridge, MA

#### Dancer / Choreographer

September 2012 – January 2015

- Attended weekly practices in the dance genres of popping and locking
- Choreographed for performances around Boston

### PHOTOGRAPHY

500px.com/malcomgilbert

Cambridge, MA

June 2012 – Present

### VOCAL JAZZ ENSEMBLE

#### Vocalist

Cambridge, MA

February 2011 – May 2011

### NU DELTA FRATERNITY

#### Webmaster

Boston, MA

July 2010 – February 2012

- Redesigned and updated the fraternity website: *nudelta2010.mjgil.com* & *nudelta2011.mjgil.com*
- Set up workstations running a dual-boot of Windows 7 and Ubuntu and a server running Red Hat

### MIT DANCETROUPE

#### Dancer

Cambridge, MA

February 2010 – May 2011

- Practiced for and participated in a four-day dance showcase at the end of the Fall semester
- Developed strong personal skills by interacting and collaborating with a group of dancers

### DISCOVER MECHANICAL ENGINEERING (PRE-ORIENTATION PROGRAM)

Cambridge, MA

#### Team Member

August 2009

- Worked with a team of 4 to design and build soccer-playing robots to compete in a soccer tournament
- Used machines including band saw and drill press while learning valuable techniques such as soldering

## SKILLS

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- Design Software:* Photoshop, Illustrator, After Effects, Lightroom, Sketch, Gimp, Cinema 4D, Maya
- Web Programming:* HTML, CSS, JavaScript, SQL, jQuery, Django, Node.js, Ruby on Rails, Express
- Programming:* Python, PHP, Java, MATLAB, Objective-C, C++, C#, Bash, Ruby, Scheme, Go, Rust
- Big Data:* Hive, Hadoop, Qubole
- Dev Ops:* Vagrant, Docker, Chef, Puppet, Jenkins, Ansible
- Web Architecture:* Nginx, Memcached, Varnish, Thrift, Kafka, Monit, Redis, Amazon Web Services, Elasticsearch, MongoDB, PostgreSQL, MySQL, MariaDB