Malcom Gilbert

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MIT Grad · Software Engineer · Web Developer

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EDUCATION

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

WORK EXPERIENCE

LAMBDA, INC. (YC17)   Remote / San Ramon, CA
Artificial Intelligence / Machine Learning Instructor   *October 2017 – December 2017*
- ○ Created syllabus to teach students machine learning and artificial intelligence

IDEAFLOW, INC   Remote / Palo Alto, CA
Core Developer   *September 2014 – 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

MASSACHUSETTS INSTITUTE OF TECHNOLOGY   Cambridge, MA
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
- ○ Helped students with conceptual and programming problems in weekly office hours

PINTEREST   San Francisco, CA
Backend Machine Learning Engineer (BlackOps Team)   *June 2013 – January 2014*
- ○ Created a service for extracting features from websites using PhantomJS
- ○ Experimented with Variable Order Markov Models for anaylzing 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 upon graduation

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

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

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   Cambridge, MA
500px.com/malcomgilbert   *June 2012 – Present*

Vocal Jazz Ensemble   Cambridge, MA
Vocalist   *February 2011 – May 2011*

Nu Delta Fraternity   Boston, MA
Webmaster   *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   Cambridge, MA
Dancer   *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

- *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