
ONLINE LEARNING

COURSERA CERTIFICATES

November 2023 – January 2024

- Google Digital Marketing & E-commerce Professional Certificate (**cert**)
- Google Cybersecurity Professional Certificate (**cert**)
- AWS Cloud Solutions Architect Professional Certificate (**cert**)

MIT edX

- Introduction to ChatGPT (**cert**)

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

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 Intern (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

Boston, MA

CTO / Full Stack Developer

March 2012 – May 2013

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

INTEL CORPORATION

Folsom, CA

3D Graphics Driver Team – Technical Intern (DevOps)

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 (dancer), Vocal Jazz Ensemble (singer), Nu Delta Fraternity (webmaster)
- *Photography*: 500px.com/malcomgilbert

SKILLS

- *Design Software*: Photoshop, Illustrator, After Effects, Lightroom, Sketch, Gimp, Cinema 4D, Figma
- *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
- *Machine Learning*: TensorFlow, Pytorch, Numpy, NLTK, Pandas, Scikit-Learn, SciPy, Keras, Matplotlib, OpenCV
- *Digital Marketing*: Google Analytics, Google Adwords