

# Max Liao

## Software Engineer

### Contact

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LinkedIn

### Work Eligibility

U.S. Citizen

### Computer Languages

Python  
JS, Typescript  
C, C#, C++  
Matlab, R

### Web Development

Angular, React, Vue  
Node.js, Flask  
Electron  
RESTful APIs  
HTML5, CSS3  
Bootstrap, SASS  
Cypress, Selenium, Mocha

### Databases & Backend

SQL  
MongoDB  
Firebase  
ORM (SQLAlchemy)

### AI & Machine Learning

Hugging Face  
Vector Embeddings  
Computer Vision (CV2)  
TensorFlow, PyTorch  
NumPy, Pandas  
Scikit-learn  
AI Product Search

### DevOps

Git  
JIRA  
Docker  
Google Cloud (GCP)

### Technical Skills

UX/UI Design  
CI/CD Testing  
Technical Writing  
Embedded Systems  
CAD, PCB Design  
3D Printing  
Micro controllers  
PID Controllers

### Languages

English ★★★★★  
Mandarin ★★★★★  
French ★★★★★  
Spanish ★★★★★

### Highlights

- Senior software engineer with 7 years of experience in designing and developing robust and user-friendly applications
- Built applications with automated data collection pipelines and integrated AI models, including computer vision for image-based classification and similarity matching
- Experience with Agile Software Development and CI/CD methodologies

### Experience

- 03/19 - now **Software Engineer** TKE  
Responsible for touchscreen elevator dispatch system software used on elevator kiosks, car operating panels, and smart mirrors
- Fully upgraded application from AngularJS to modern Angular
  - CI/CD - added Cypress testing and integrated reporting with JIRA
  - Implemented cybersecurity upgrades including CSP, strict password enforcement, and session security hardening
  - Created ElectronJS app using Vue to simulate destination dispatch of elevators using RS-485 and UDP
- 11/18 - 6/19 **Teacher's Assistant** Georgia Institute of Technology  
Full Stack Flex Web Development - teacher's assistant with Trilogy Education  
Taught night classes for Georgia Tech Professional Education  
Material included NodeJS, ExpressJS, SQL/MongoDB, React
- 4/18 - 12/18 **Software Engineer** NCR Corporation  
Software and firmware support for the ATM hardware division at NCR  
Created and supported analysis tool for the Scalable Deposit Module 2
- 8/15 - 12/17 **Research Assistant** Skidaway Institute of Oceanography  
Researched UV-wet chemical oxidation dissolved organic carbon (DOC) analyzer for aqueous samples to obtain higher precision, faster speeds, and more adaptable usage than commercial instruments
- 4/15 - 9/15 **Electrical Engineer** PhytoSynthetix  
Made improvements to a fluorometer for grow chamber monitoring at the University of Georgia horticultural greenhouse
- 1/13 - 1/15 **Software Test Engineer** Cisco Systems  
Install and maintain a continuous integration test framework for set top boxes
- Developed test software and procedures in Python and C
  - Generated specification and prototype test equipment per product test and repair requirements

### Education

- 2015 - 2017 **Master of Science in Biological Engineering** University of Georgia  
Research Assistant at Skidaway Institute of Oceanography  
Certificate in Coastal and Oceanographic Engineering  
Advisers: Dr. Aron Stubbins and Dr. Mark Haidekker
- 2008 - 2012 **Bachelor of Science in Electrical Engineering** Georgia Institute of Technology  
Undergraduate Research Opportunities Program  
Adviser: Dr. Manos Tentzeris
- 2018 **Full Stack Flex Web Development** Georgia Institute of Technology  
Georgia Tech Professional Education coding bootcamp