

# Alberto Li

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## EDUCATION

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Georgia Institute of Technology, Atlanta GA

- M.S. Computer Science, **August 2020 – 2023 (while working full time)**
- B.S. Computer Engineering, GPA: 3.92 / 4.00, **August 2015 – May 2019**

## EXPERIENCE

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Amazon Web Services – SDE II Seattle, WA

*April 2021 -- Current*

Amazon Web Services – SDE I Seattle, WA

*March 2020 – March 2021*

Goldman Sachs – Engineering Summer Analyst (Investment Banking Division) New York, NY

*May 2019 – August 2019*

- Worked on Marquee Jupiter Shareholder Analytics Platform as a full stack developer
- Implemented regional ownership breakdown analysis feature and developed automation for investment banking tasks
- Implemented cost-basis with multiples feature for analyzing register funds/institutions' company investor portfolio

ExxonMobil Corporation – Software Development Intern Houston, TX

*May 2018 – August 2018*

- Worked on rewriting full stack solution of HR application in React/Redux, .NET Core, and Entity Framework Core with a focus on User Centered Design
- Increased system performance, stability and reduced user error of HR application

Intel Corporation – Product Development Intern Folsom, CA

*January 2018 – May 2018*

- Created wrapper library to interface with the test platform's BIOS and BMC through the IPMI protocol
- Developed automated report generation tool for distributing recurring emails on yield metrics for memory DIMMs

General Electric Oil & Gas – Embedded Systems Intern Minden, NV

*May 2017 – August 2017*

- Developed advanced debugging system for monitoring device to help reduce product development time by 3 months
- Designed architecture and implemented client-server model design using QNX Real-Time Operating System for a multi-threaded C/C++ Server application and C#/.NET for a Client front-end GUI using Berkeley Sockets API

Florida Power & Light – Software Engineer Summer Intern Miami, FL

*May 2016 - August 2016*

- Designed and developed an application using Visual Basic as the front-end and SQL Server as the back-end for Customer Accounting to increase visibility and reporting capabilities to the process improvement team

## RESEARCH

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Intelligent Vision & Automation Lab | Research Assistant Atlanta, GA

*September 2017 – December 2017*

- Worked with a team of four undergraduate researchers, combining AR technologies and ROS to create feedback system such that a user can control a robotic arm with the HoloLens

Inan Medical Devices Research Lab | Research Assistant Atlanta, GA

*September 2016 – May 2017*

- Worked on a smart sensor packaging system for characterizing sensor-to-body interactions in wearable medical devices
- Implemented vibrational system using accelerometers and bone transducer to predict sensor location with heat map

## PROJECTS

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Computer Vision Approach to Discourage Distracted Driving

*March 2019*

- Used OpenCV Haar cascade classifiers for face detection and DeepGaze for tracking face of simulated driver. Assigned score of driver based on face movement to determine distractedness and integrated this technology with insurance company API for rewards incentive for attentive driving

Internet of Things (IoT) Smart Hedgehog Home

*August 2017 – December 2017*

- Developed open source smart environment for hedgehog with monitoring features driven by data collected from a range of sensors such as temperature sensor, camera, speaker, servo motors to autonomously control hedgehog home
- Designed fault tolerant architecture of smart home system using RPC for communication between microcontrollers

## LEADERSHIP

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Teaching Assistant (TA) for ECE 3031: Digital Design Lab at Georgia Tech Atlanta, GA

*January 2017 – May 2017*

- Facilitated a rapid-prototyping lab class dominated by FPGA projects by guiding students in their lab assignments

Training Assistant - GT RoboJackets

*September 2016 – May 2017*

- Lead technical training sessions designed for new members in RoboJackets, a robotics student competition team

## SKILLS

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Programming	Python, Java, C#, MATLAB, SQL, C/C++, HTML, CSS, Bash
Software	Quartus II, EagleCAD, Git, LabVIEW, Logger Pro, QNX Momentics, Biopac
Instrumentation	Oscilloscope, Logic Analyzer, Soldering, Signal Analyzer
Frameworks/Technologies	Angular, React, Spark, MongoDB, NodeJS