

# CHRISANTHA J. PERERA

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## EXPERIENCE

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### Seesaw Learning

April 2019 – Present

*Fullstack Software Engineer, IC2 / DevOps Engineer, IC2*

*San Francisco, CA*

Worked on a team of 3 DevOps engineers supporting an 18-member engineering org. Contributed to and maintained CI/CD pipeline (github events+AWS codepipeline). Added thorough internal documentation to multiple infrastructure projects. Built and improved automated tests; including user interface tests using Cypress. Improved bulk export capabilities of the Seesaw platform. Used Python, all-AWS infrastructure, Elasticsearch, DynamoDB, and Scalyr.

### Plum Lending

September 2018 – April 2019

*Backend Software Engineer / Data Engineer*

*San Francisco, CA*

Worked on a team of 3 engineers improving an ETL pipeline for Commercial Real Estate owner, property, and loan data. Added new data sources and API integrations for data cleaning, verification, and augmentation. Improved data visibility for internal consumers such as the data analysis and machine learning teams. This stack used Java, Python, MongoDB, AWS, Elasticsearch, and Snowflake.

### Castle Global

June 2017 – December 2017

*Backend Software Engineer*

*San Francisco, CA*

Worked on a team of 4 engineers improving Hive, a machine learning and data labeling product. Added image, audio, and video labeling methods as well as metrics for evaluating moderators. Key functional components were RabbitMQ, asynchronous Javascript, postgres and Cassandra.

### Oracle

November 2014 – January 2016

*Software/OS Engineer*

*Santa Clara, CA*

Updated sections of the legacy Solaris codebase on the Solaris Cryptography and Key Management team. Improved Solaris Compliance auditing of system security properties, working with configurable security policies and conforming to standards listed in SCAP. Led project to integrate Solaris Compliance with a dashboard product from Solaris Analytics, another Oracle group.

*Roles left out for brevity: Fullstack Engineer at Thanx, Computer Security Researcher at Lincoln Labs, Nanotech Research at MIT, Web Development at Online Delivery Startup*

## EDUCATION

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### Massachusetts Institute of Technology

September 2008 – June 2012

*B.S. in Electrical Engineering & Computer Science*

*Cambridge, MA*

Relevant Courses: Database Systems; Computer and Network Security; UI Design and Implementation; Computer System Engineering; Artificial Intelligence; Intro to Algorithms; Design and Analysis of Algorithms; Elements of Software Construction; Research in EECS

Overall GPA: 4.2/5.0

*additional coursework available*

## TECHNOLOGIES AND LANGUAGES

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**Languages & Protocols** Python, Java, HTML/CSS/Javascript

**Databases** DynamoDB, PostGres, MongoDB, MySQL

**Tools & Misc** Vim, Bash, Sublime, Flow, Mocha, Node.js

## PROJECTS AND PUBLICATIONS

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Third author on joint paper published in Nano Letters, 2010:

*Anomalously Large Reactivity of Single Graphene Layers and Edges*

App Permissions, Isolation, and Sandboxing (Class Project in Computer Security)

Private Matching and University Admissions (Class Project in Computer and Network Security)