

# JOEY PINTO | SOFTWARE ENGINEER

+1(650)-447-6225 | pintojoey@gmail.com | [www.github.com/pintojoey](http://www.github.com/pintojoey) | [www.linkedin.com/in/pintojoey](http://www.linkedin.com/in/pintojoey) | Mountain View, CA

---

## EDUCATION

**MS IN SOFTWARE ENGINEERING, *Carnegie Mellon University, Silicon Valley, USA*** Jan 2018 - May 2019

**Relevant Coursework:** Cloud Computing, Distributed Systems, Software Engineering, Software Testing, Service Oriented Computing, Software Requirements and Interaction Design, Deep Learning, Process and Project Management

**B. TECH IN COMPUTER SCIENCE ENGINEERING, *Indian Institute of Information Technology, Kota, India*** Aug 2013 - May 2017

**Relevant Coursework:** Machine Learning, Image Processing, Natural Language Processing, Malware Analysis, Networking, Design and Analysis of Algorithms and Data Structures, Microprocessors, Operating Systems, Computer Architecture, Android Security

## EXPERIENCE

- Teaching Assistant and for the Cloud Computing Course (CMU-15619) - Spring 2019
- Teaching Assistant for the Foundations of Software Engineering Course (CMU-18652) - Fall 2018
- Research Assistant for 'Traffic Dot' - Built a Neo4j and Open Street Maps API to manage sensor deployment (Spring 2018)
- Student Activities Leader for the 'CMU SV Fun Squad' since Jan 2018

## SKILLS

- Cloud Computing, Web Services, Distributed Computing, Android Development, Machine Learning, Blockchain
- Java, Android, Node.js, SQL/NoSQL databases, Hadoop, JavaScript, Node.js, MATLAB, C/C++, REST, AWS, GCP, UNIX, Python, HTML/CSS

## INTERNSHIPS

**STUDENT DEVELOPER, *Google Summer of Code 2018*** May 2018 - Aug 2018

- Remote internship for the International Neuro-informatics Coordinating Facility, Stockholm, Sweden
- Built a dynamic signal processing workflow designer to assist development of EEG systems for the motion impaired
- Java EE, Apache Spark and Hadoop based open-source reflection-based framework for visual programming

**SYSTEM AUTOMATION ENGINEER, *Defense Research and Development Organization, Hyderabad, India*** Jul 2017 - Nov 2017

- Developed 3 Java-based desktop applications for monitoring and controlling missile subsystems and heavy machinery
- Automated generation of experiment reports with high-speed data acquisition systems for scientists
- MATLAB, Java(Swing), Visual C++, Socket Programming, TCP/IP networks interfaced with scientific instruments
- Reduced experiment duration from over 20 hours to under 30 minutes by automation

## PROJECTS

**COURSE DEVELOPER, *CMU Cloud Computing (15619)*** Dec 2018 – Jan 2019

- Project owner for 'VM auto-scaling' assignment that tests design of performant and cost-effective horizontal scaling policies on AWS
- QA tester for Twitter Analytics project using HBase, Spark, MySQL, Vert.x, JMeter for big-data warehousing and hosting a webservice
- Supported multiple projects based on AWS EC2, ELB, RDS, Fargate, Lambda and technologies like Kafka, Samza, Kubernetes, Tensorflow

**LEAD SOFTWARE ENGINEER, *Lawcunae.com, New Delhi, India*** May 2017 - Dec 2017

- Led a team of 5 developers to build a document search, annotation and collaboration system for the Indian judiciary's legal database
- Designed Architecture, recruited developers, performed code review, pair-programming and task-allocation as the SCRUM Master
- Elasticsearch, Node.js, Angular.js, PostgreSQL, MongoDB and Neo4j deployed on AWS

**SOFTWARE DEVELOPER, *Cairn Oil and Gas CSR App, Barmer, India*** Jan 2017 – May 2017

- Volunteered by leading a team of 3 developers to create an Android application and API server for Cairn India's CSR Activities
- Over 100 downloads during first week of launch, voluntary effort awarded by the Chief Minister of Rajasthan, India

**SOFTWARE ENGINEER, *Ryoking.com, Jaipur, India*** Sep 2016 - Nov 2017

- Java EE, MySQL and Tomcat webserver deployed on an AWS cloud to host a real-time vehicle tracking system
- Developed an IOT web-server, APIs and Android Application with support for alerts, data-analytics, playback of trips

**LEAD DEVELOPER, *IIIT-Kota Student Registration Portal, Jaipur, India*** Jan 2016 - July 2016

- Led a team of 25 developers in class on an iterative model to build a university student registration system
- Engineered multiple modules and trained team to use Java EE, PostgreSQL, Neo4j, LDAP, FTP, Tomcat
- 220 incoming students were registered for the Fall 2016 semester using this portal

## ACHIEVEMENTS

- Second place at Bitclave BASE™ Blockchain Hackathon for building a blockchain-based reverse auction system (August 2018)
- Second place at IBM Watson Hackathon for tackling Gender Bias (April 2018)
- First place at MNIT Jaipur Hackathon (Feb 2014)

## PUBLICATIONS

- *Fault Prediction for Distributed Computing Hadoop Clusters Using Real-Time Higher Order Differential Inputs to SVM*, IIJCS 2018
- *Distributed Fault-Tolerant Hadoop Clusters*, ICSEC 2016, Chiang Mai, Thailand.