

EDUCATION

Los Angeles, CA	University of California, Los Angeles	September 2013-March 2019
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- M.S. in Computer Science: GPA 3.2; B.S. in Mathematics of Computation: GPA 3.2
- Dean's Honors List: Fall 2013, Spring 2015
- Coursework: Programming Languages; Machine Learning in Bioinformatics; Algorithms and Complexity; Introduction to Bayesian Networks; Computer Networking; Computer Systems Architecture; Machine Learning Algorithms; Web Information Systems; Database Systems; Programming C++; Software Construction Laboratory; Fundamentals of Artificial Intelligence

SKILLS

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- **Languages:** Python; Scala; Java; C++; JavaScript; HTML/CSS; MySQL; OCaml; Lisp; R
 - **Technologies:** Qt; Android Studio; Bootstrap

EMPLOYMENT

Backend Software Engineer	TrueAccord	May 2019-Current
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- **Overview:** Created scalable solutions to improve our API, designed/abstracted code to make easily reusable for multiple clients, built dynamic webpages with extensive unit tests
- Refactored our backend data fetching API to support filtering and lazy loading on the frontend, decreasing dashboard loading time from 90s to 67s (25% speedup) using an efficient tail recursion to grab the data needed
- Implemented automated recurring notifications via email for inactive clients, increasing case resolution and successful debt payments by 10%
- Built scalable file upload functionality to store files on AWS S3, transforming previous manual file handling system into a seamless automated one, with around 70 files uploaded weekly
- Implemented payment plan management and designed ETL paradigm of pre-computing payment plan status using existing history logs data
- Researched autocomplete solutions and measured tradeoffs between technologies, scoped out an epic to integrate Elasticsearch as well as a short-term solution of adding aliases to our existing search model
- Incorporated third party APIs such as Stripe and Lob to improve customer experience
- Worked with Scala, Java, and Python, Amazon Web Services/Google BigQuery data storage

Software Engineering Intern	AT&T/DIRECTV	June-September 2016 (40 hours/week)
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- Integrated Reddit API with Set Top Box technology to display Reddit thread comments alongside both live and recorded television shows
- Worked with Java and DIRECTV's Set-Top Box technology

PROJECTS

Human Tamagotchi App	Android Studio, AWARE, Java	March 2019
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- Created animated avatar to react to inputs received to promote a healthy lifestyle, inspired by Tamagotchi toy
- Performed SQL queries from Android framework AWARE to change avatar's happiness score based on user's screen usage and amount of healthy activities (running, exercise)
- Developed using Java in Android Studio, YouTube demo at <https://youtu.be/cRURCqyKJkE>