
EDUCATION	University of California, Berkeley <ul style="list-style-type: none">B.A. Applied Math Relevant Coursework <ul style="list-style-type: none">Databases, Computer Security, Artificial Intelligence, Algorithms, Data Structures, Computer Architecture, Structure and Interpretation of Programs, Discrete Math & Probability Theory	Expected Graduation: May 2019
SKILLS	Programming Languages (by proficiency) – Java, Python, Ruby, Javascript, HTML, CSS, SQL Tools & Frameworks – Ruby on Rails, React, Git, Vim	
WORK EXPERIENCE	Facebook – Software Engineer Intern <ul style="list-style-type: none">Parallelized the primary Dataswarm process that compiles global task dependencies across all production pipelines, reducing runtime by 65%. Dataswarm is a data pipeline workflow platform that all software engineers, data engineers, and data scientists rely on for accessing data warehousesCreated a new entry point to distribute the compilation process, utilizing sharding architecture to partition the workload across multiple clusters of machines and aggregate resultsMonitored each shard to ensure success and efficiently handle a variety of failure scenarios Amazon.com – Software Engineer Intern <ul style="list-style-type: none">Reduced latency of the Kindle Fire Tablet Storefront page by 20% through client-side cachingArchitected caching using Aspect Oriented Programming, allowing caching logic to be applied to other pages with a simple annotation above the controller execution method without code duplicationDesigned a custom Etag to validate the cached page, removing the risk of an invalid cache Cisco Meraki – Software Engineer Intern <ul style="list-style-type: none">Implemented “Managed App Settings” for Enterprise Mobility Management (EMM), allowing system administrators to easily configure settings on apps across thousands of managed devicesConstructed a background Rails process that queried the Google Play Store API for an Android app’s setting schema, allowing administrators to acquire and select supported keysCreated an accounting system guaranteeing proper application/removal of app settings.Designed a simple React interface for administrators to input custom settings MobiTv – Android QA Engineer <ul style="list-style-type: none">Developed automated JUnit scripts to integration test phones and tablets, reducing manual testingChecked the UI/UX of the applications, ensuring it correctly displayed JSON data from serversExecuted multiple week long longevity/reliability testing of a media dongle through automated testingManually tested general functionality of media dongle (connectivity, pairing, streaming). Stanford University – Front End Web Designer / Research Assistant <ul style="list-style-type: none">Designed mobile application webpages using HTML, CSS, Javascript, and JQueryDetermined how technology could be utilized in daily life to improve health and hygieneEnsured experiments tested the correct variables and data was related to human behavior	May 2018 – Aug 2018 May 2017 – Aug 2017 May 2016 – Dec 2016 May 2015 – Aug 2015 Jun 2014 – Aug. 2014
PERSONAL PROJECTS	Chess <ul style="list-style-type: none">Implemented the internal representation of the chessboard that abstracted the rules and movement of the pieces and created a simple UI to play the gameCreated an AI that chose the best move based on a heuristic that evaluated gameplay and game tree search with alpha-beta pruning to analyze all possible future moves Photo Editing <ul style="list-style-type: none">Created .tiff image filters that applied Gaussian blurring, Sobel gradient, image sharpening, cooling, and warming by manipulated RGB values of pixels through linear algebraCompressed photos with run length encodings and stored them in custom doubly-linked lists	Jul 2016 Oct 2015
OUTSIDE INVOLVEMENT	Tech Chair – Theta Tau Engineering Fraternity – calthetatau.com <ul style="list-style-type: none">Maintained the Ruby on Rails web app to display the latest brother information, upcoming events, and brotherhood photos and created a page to showcase our alumni	Jan 2016 – May 2016
HOBBIES	Rock Climbing, Photography, Piano, Surfing, Swimming, Longboarding (skateboard), Reading	