Howard Chen

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chenhoward.github.io | github.com/chenhoward

Education:

University of California, Berkeley B.A. Computer Science (May 2016)   GPA: 3.5
Coursework: Data Structures, Algorithms, Databases, Machine Learning, Security, Artificial Intelligence, Discrete Mathematics and Probability Theory, Computer Architecture, Networks

Experience:

Groupon | Web Development Intern   *June 2015 - August 2015*
  • Created aggregation filters and email subscriptions settings on client side Javascript
  • Created RESTful JSON API endpoints and optimized slowest endpoint by over 4 seconds
  • Wrote and deployed Rails Database migrations on core database
  • Wrote scheduled asynchronous worker tasks to generate CSV's and send emails
  • Led initiative to enforce consistent API usage across two Rails Application

Salesforce | Software Engineering Intern   *January 2014 - August 2014*
  • Created mobile applications on Salesforce platform using Java, Javascript, HTML, and CSS
  • Created data visualizations using d3 and AngularJS
  • Improved mobile performance by 20% through algorithm improvement

Ruby on Rails Decal | Instructor | railsdecal.com   *April 2014 - Present*
  • Manage app deployment and database backups of a Heroku application with over thousands of users
  • Wrote CI testing to ensure any updates can be safely pushed to the Heroku application

Cal Blueprint | President, Project Leader, Developer | www.calblueprint.org   *September 2013 - Present*
  • Led development direction through client meetings, creating app specifications, and delegating tasks
  • Performed code reviews on both Android and web applications

UC Berkeley Data Science | Undergraduate Student Instructor   *January 2016 - Present*
  • Taught discussion sections for the Data Science course (Numpy, Regressions, Classification)

Projects:

Project Homeless Connect Android App | github.com/calblueprint/PHC   *August 2014 - December 2014*
  • Led development of Android application with thousands of users on the Google Play Store
  • Created fuzzy search JSON endpoint in Rails using postgresql trigrams to preventing data replication
  • Integrated Salesforce updates in RESTful JSON API to allow clients to generate Salesforce reports

California Rangeland Trust | Project Leader | github.com/calblueprint/CRT   *January 2016 - Present*
  • Worked on formula parser that run arbitrary calculations on input data using a DAG
  • Code reviewed all pull requests and iterated on application features to ensure a quality product
  • Added indices to database to increase formula calculation performance by 15%

Food Donation and Pickup Android App | github.com/calblueprint/ff   *January 2014 – May 2014*
  • Created views using data from the Volley API Library
  • Integrated Facebook SDK to post on user's wall for publicity
  • Created graphics, assets, layouts, and UI elements to improve user experience

Skills:

Ruby on Rails, Android (Java), Javascript (Node, React, Backbone), Python (Numpy), HTML, Unix OS, Vi