

VATSAL RUSTAGI

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Coursework

Data Structure Implementation and Analysis (C++)
Intermediate programming (Python)
Intermediate programming (Java)
Introduction to Data Management (SQL)
Introduction to software engineering (git)
Principles in System Design (C)
Discrete Mathematics for C.S.
Applications of Probability in C.S. (Matlab)
Introduction to Artificial Intelligence
Design and Analysis of Algorithms
Human Computer Interaction

Skills

Programming Languages

C++
Swift
Python
Java
JavaScript

Frontend

iOS
HTML
CSS
Bootstrap

Backend

SQL
Node.JS
MongoDB
Cheerio (JS)
Beautiful Soup (Python)

Other Skills

NoSQL
Tableau
MS Office
Matlab
R
Git
Fluent in English, Hindi
CocoaPods
Heroku
C
C#

Education

University Of California, Irvine

B.S. Computer Science 2018

- GPA: 3.947 / 4.0

- Dean's Honor List: Winter 2016 - Spring 2017

Employment

TourUp

Lead iOS Developer

May 2017 to Current
Irvine

- Lead iOS Developer and UI/UX designer at the startup. Created UI mockups for the iOS application using Sketch app based on iOS design patterns and developed the iOS application from scratch in Swift 3 and Objective-C.
- Worked with team members to come up with design ideas and implemented them in the application. Identified the strengths and weaknesses of the team members and delegated the appropriate jobs to them to carry out the task.
- Integrated various APIs (Google Maps, Stripe, Sinch, FBLoginSDK, GoogleLogin etc.) for functionality and pods (WSTagsField, JSSAlertView, SwiftyStarRatingView, Alamofire, SwiftyJSON) for UI and utility purposes in the application.
- Other elements that I worked with: Delegates, UICollectionView, UITableView, UIPageViewControllers, UIScrollView, MKMapView, UISegmentedControl, UINavigationController, UIStackViews etc.

Dreams for Schools

Mentor at AppJam+

Sep 2016 to Dec 2016, Apr 2017 to Jun 2017
Garden Grove

- Worked with middle school students to build a STEM based Android application - "Eruption".
- App was created using ApplInventer (by MIT) a Java based online IDE.
- The app won the fan favorite award in the final showcase among 18 other teams.

Donald Bren School at UC Irvine

Tutor

Jan 2016 to Mar 2016
University of California, Irvine

- Tutored a programming in Python course.
- Answered lab assignment related questions of about 30 college students.
- Received an evaluation of 9/10 (with a class average of 8.26/10).

Projects

Course Plan

Sep 2017

- An iOS application that tells college students the courses they can take based on the courses they have already taken.
- Developed the backend with Node.JS and the frontend with iOS.
- Web-scraped UC Irvine's course listings webpage with Cheerio library in JavaScript to get the most up-to-date course listings.
- Applied Kahn's algorithm to topologically sort the courses and display the resulting courses.

What's In My Fridge

Aug 2017

- Developed an iOS application to keep track of the items in the fridge and keep them from expiring.
- Integrated CoreData to save data on the device. Implemented various cocoapods to improve the UI.
- Used the NSFetchedResultsController to coordinate data between UITableView and the database.

Rent Splitter

Aug 2017

- Developed a rent calculator iOS Application that helps to split rent among roommates. The app lets the user choose an Irvine company UTC apartment for easier user experience.
- Implemented with an MVC model and various iOS elements like UICollectionView, UIPickerView, UITableView etc. Moreover, wrote custom UI classes to modify UITextFields and UILabels and implemented a material color palette.

Activities

Association for Computing Machinery at UC Irvine Member

Apr 2017 to Current

- Solved various programming problems and improved our understanding of data structures and algorithms. Learned new and more efficient ways to solve the same problem.
- Sources of problems: HackerRank, Google Code Jam, CodeChef etc.

Artificial Intelligence at UC Irvine Member

Sep 2017 to Current

- Solve problems on Kaggle.com and discuss among the peers to improve our understanding of Machine Learning based problems.

Management Information Student Society at UC Irvine Mentor

Sep 2017 to Current

- Help UC Irvine students, younger than me, with various college and course related activities through my experience and learnings from my years spent at UC Irvine.