

# Yuhan Dai

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## Objective

Experienced senior computer science student and full stack developer with strong programming skills seeking challenging **software engineering** position.

## Technical Skill

- Languages: C/C++, Java, Ruby on Rails, HTML/CSS/JavaScript, Swift, Objective-C, Python, Assembly, OCaml, Scala, SQL
- Developer Tools: Linux, Git, Vim, JQuery/ReactJS, Xcode, Android Studio, Arduino

## Work Experience

**Codefied Inc. (dba HouseCall)**, San Diego, CA

March 2016 – Present

Software Engineering Intern

- Worked on web application platforms which enabled sales and marketing teams to perform better through **ETL** live data.
- Wrote algorithms to periodically analyze a **SQL database** through the aid of **Active Record**, and present information to project managers in the form of dashboards and email attachments.
- Worked on improving customer experiences by implementing new features using **object oriented programming** and advanced **Javascript** libraries such as **ReactJS** and **JQuery**.
- Worked on preventing fraudsters and improving the security of our payment service by implementing **geofence APIs** and writing complex **algorithms** and **unit tests**.

**Beijing iKids System Co., Ltd.** Wuhan, China

Software Engineering Intern

July 2015 – August 2015

- Performed tests and provided feedback on educational web and Android application, helping the company to complete the project a week early.
- Worked on design and UX of web interface used by more than 20 official preschool websites.

## Projects

**Adventour Android Application**

Language: **Java**

- Developed a location based Android app using **Agile Development** methodology, **MVC framework**, and **Design Patterns**
- Created our own **JSON API** for data manipulation on our **MySQL** database using **Node.js Express**

**Image Recognition IOS Application**

Language: **Swift**

- Worked in a team of two to develop an iPhone app to analyze pictures using image recognition and our own database
- Developed app in **Pair Programming** fashion, often peer reviewing each others' code

**QR Organic Food Web Application**

Languages: **Python, HTML/CSS, Bash**

- Worked in a team of four and developed a web application to generate QR codes using a generator API
- Created **MySQL server** to manage our databases, and used **Python Flask** to handle user interactions

**Website Database Team Project**

Language: **C++**

- Led team to develop a friendly user interface and complex search engine using advanced data structures such as AVL Tree, Hash Table and Heap algorithms

## Other Projects (More on Github)

Compression algorithm with 80% performance improvement, auto-complete/spelling with 200% performance improvement  
BCD Interval Clock using C, find anagrams using assembly, GoMoku game using Java, 5 stage pipeline CPU using Verilog, etc.

## Education

**University of California, San Diego**

Major: Computer Science

September 2015 - March 2017

Overall GPA: 3.85/4.0 – Provost Honors      Major GPA: 3.9/4.0

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|-----------------------------------|--|--|
| • Advanced Data Structures (C++)  | • Programming Languages (OCaml, Scala) | • Software Engineering (Agile/Waterfall) |
| • System Programming (C/Assembly) | • Digital Design (Verilog)             | • Product Marketing & Management         |
| • Theory of Computability         | • Software Tools & Techniques          | • Innovation to Market                   |
| • Computer Architecture           | • Design & Analysis of Algorithm       | • Managing Diverse Teams                 |