

BEN CHAFIK

Bachelor of Science, Computer Science
University of California, San Diego. 06/2018

Associate of Science Degree, Mathematics
Berkeley City College, Berkeley. 06/2015

SKILLS & QUALIFICATION

Languages: Java, C, C++, C#, HTML, CSS, JavaScript, React.

Techniques: Data Structures, searching & sorting algorithms, Software Design Patterns, OOD/OOP.

Notable courses: Advanced Data Structure, Software Engineering, Design & Analysis of Algorithms, Design for Development, Web Client Languages.

PROFESSIONAL EXPERIENCE

Bentley Systems, Software Engineer Intern, San Diego

06/2017 – 09/2017

Participated in the transition from software licensing model to SaaS model. Built, with a team, a training course with prototypes, best practices, and styling conventions documentation to introduce future developers to the new stack. Coded and unit-tested each and all programs using C# and .NET framework to establish the correctness and maintainability of the code. Took initiative to manage and split tasks between interns.

UCSD, Tutor and Grader, San Diego

01/2016 – 10/2017

Taught students complex Data Structure algorithms and clarified projects written in Java. Created innovative techniques that went beyond standards, such as authoring extra slides about programming languages, to ease the learning of new concepts to students. Generated impromptu brainstorm problems to test the students' knowledge of the materials being discussed or related concepts to adapt to the students' needs.

PROJECTS

AuxiliumHub

Mock startup project tackled real world business challenges. Identified a market opportunity where tutors lacked exposure to students on UCSD campus. Solved for this market opportunity with a dual market model where tutors can increase and target their exposure to students, and where students can compete for the best tutors. Created, built and deployed a functioning web app prototype. Key features included efficient search algorithms, intelligent notifications, fast data structures and responsive U.I. front end.

`#selfstarting #startup #webapp #css #php #mysql #javascript`

DietBud

Self-directed design and implementation of a fully functioning Android app. Conceived and designed a nutrition and calories counter consumer friendly app where users tracked daily intake of calories, carbs, proteins and fats. Coded and implemented all functionality including an easy to use calorie and nutrition input U.I. and innovative features like creating a meal set for quick and easy re-use. Classes and inheritance hierarchy were used to separate components of the app.

`#mobile-dev #c-sharp #unity3d #design-pattern`