

Victor Chen

Work Experience

- Jun 2016 – **Software Engineering Intern, SAP, Palo Alto, CA.**
Aug 2016
 - Worked on the Open API team, developing internal tools
 - Developed several programs to create, parse, verify, and diff-check XML files for other employees and customers to use
 - Used various XML APIs, including DOM/SAX Parsing, and DTD/Schema Verification
 - Languages and APIs used: HTML, CSS, Java, JavaScript, Spring Framework
- Mar 2016 – **CSE Tutor, UCSD CSE Department, La Jolla, CA.**
Present
 - Tutor for Object-Oriented Programming, Basic Data Structures & Object-Oriented Design, and Unix Lab Classes
 - Assisted students in implementations of OOP concepts (polymorphism, abstraction, concurrency, inheritance), various data structures (trees, linkedlists, stacks, hashtables), as well as in using various software tools (Git, Vim, gdb, Makefiles)
 - Analyzed and debugged students' code, and explained concepts in C, C++, and Java
- Jun 2015 – **Software Engineering Intern, Vessel Science, Sunnyvale, CA.**
Sept 2015
 - Implemented lab protocol simulation software that was used by whole company
 - Utility job - updated server code, wrote unit tests, and added new HTML/CSS features
 - Languages and APIs used: JavaScript, HTML, CSS, Node, Angular, MongoDB
- Aug 2014 – **Java Instructor, Springlight Education, San Jose, CA.**
Sept 2015
 - Taught accelerated intro to Java and AP Computer Science classes to over 30 students
 - Developed a curriculum around Java OOP, with over 90% of students scoring a 4 or 5 on the AP CS exam.

Education

- June 2019 **Bachelor of Science, Computer Science, UC San Diego, Provost's Honors, Major GPA - 4.00.**
◦ Notable Courses: Human Computer Interaction, Advanced Data Structures, Software Engineering, Basic Data Structures and Object-Oriented Design, Computer Organization and Systems Programming

Projects

- May 2016 – **Autograder Web Developer.**
Present
 - Member of Autograder team, tasked with managing autograder.ucsd.edu, a website used by 2000+ UCSD CS students to facilitate student-tutor queues and homework grading
 - Implemented browser notifications feature to notify students when tutors were available for help
 - Languages and APIs used: HTML, CSS, Java, JavaScript, JQuery, Play Framework
- April - May 2016 **CoupleTones.**
◦ Developed an Android application that notifies users when their partners visits one of their favorite locations
◦ Implemented backend server on Firebase, and sending notifications to users, and led team in project design and structure
◦ Languages and APIs used: Java, Google Maps API, Google Cloud Messaging API, Firebase
- Feb 2016 **Match Alert.**
◦ Developed a web app with Node that notifies entrants in a tournament of their upcoming matches through SMS
◦ Setup MongoDB backend, and implemented HTML/CSS features of the website
◦ Languages and APIs used: JavaScript, Node, HTML, CSS, Challenge API, Twilio API

Skills

Java, JavaScript, C, C++, Python, Android, AngularJS, Node.js, MongoDB, Firebase, HTML, CSS, Unix, Unity

Awards

- 2013-2015 **USA Math Olympiad Qualifier.**
◦ A national math competition open to only the top 250 high school students in the US, emphasizing Discrete Mathematics, Algebra, and Geometry
- 2013-2015 **USA Computing Olympiad, Gold Division Qualifier/Contestant.**
◦ A national high school programming competition emphasizing algorithms and data structures, where the 250 performers qualify for Gold Division