

AVA DELACRUZ

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EDUCATION

University of Southern California • GPA: 3.84 • Class of 2022

- B.S. Computer Science, minor in Spanish
- Honors: National Merit Scholar, Presidential Scholar, Grace Hopper Scholar, Rewriting the Code Fellow, Resident Honors Program
- Awards: First Place - AthenaHacks Programming Competition, Second Place - PwC Cybersecurity Capture-the-Flag Hackathon
- Coursework: Software Development, Algorithms, Data Structures, Discrete Math, Linear Algebra, Calculus III, Information Security

Conard High School • GPA: 4.00 • August 2015 - May 2018

- Graduated in three years with Maximum Honors
- National Honorable Mention Winner - The National Center for Women in Information Technology Aspirations in Computing Award

WORK EXPERIENCE

AFE Software Development Engineer Intern • Amazon • Summer of 2019

- Creating a full-stack web application which facilitates meeting scheduling for data providers and the AmazonAPI governance body
- Streamlining the code revision approval process for 100% of Amazon Software Engineers whose code directly affects Amazon.com
- Automating user authentication, time slot reservation, selective meeting date and time slot deactivation, and calendar event creation

Director of Service • USC Women in Computing • April 2019-present

- Develop and teach introductory computer science curricula to K-12 students from the surrounding Los Angeles area

Information Technology Intern • West Hartford Public Schools • Summer of 2018

- Managed technology upgrades at 14 public schools by overseeing device inventory, configuration, and network administration

TOOLS AND TECHNOLOGIES

C++, Java, Python, HTML, CSS, Javascript, jQuery, Node.js, RESTful APIs, AWS Lambda, DynamoDB, and API Gateway

TECHNICAL PROJECTS

AAPI Meeting Scheduler • HTML, CSS, Javascript, Node.js, AWS Lambda, DynamoDB, RESTful APIs • May-August 2019

- Authenticate potential users using internal Amazon APIs by checking whether or not their issue ticket has been pre-reviewed
- Create, query, and update a DynamoDB governance body meeting availability database using AWS Lambda and API Gateway
- Design and implement an intuitive, dynamic user interface, including: a landing page with a form that performs data validation, a main page with an interactive meeting-date-selection calendar with automatically-disabled non-available dates and time slot selection buttons which are enabled based on DynamoDB data, and a final page which displays a customized confirmation message
- Generate Outlook calendar invites for selected meeting times and invite necessary attendees automatically using Microsoft APIs

Shop 'Til You Drop • C++ • April-May 2019

- Simulates popular online shopping websites by allowing users to search for, rate, view ratings of, add to cart, and buy items
- Wrote a hash function to securely store and later retrieve user credentials in an unordered map in order to authenticate users

Get My Fare • HTML, CSS, and Javascript • April 2019

- Created a Google Chrome extension which allows users to instantly calculate the cost of a Lyft to a searched location

Password Cracker • Python • April 2019

- Self-taught Python and developed a brute-force password solver capable of cracking MD5 hashed passwords

Scrambled Game • Java • May-June 2018

- Designed and implemented a text-based word game with multiple difficulty levels in which the player has a limited amount of chances to correctly guess a randomly-selected word that has been scrambled using a variety of shuffle algorithms