AVA DELACRUZ

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EDUCATION

University of Southern California • GPA: 3.84 — Expected Graduation Date: May 2022

- B.S. Computer Science, minor in Spanish
- Honors: Grace Hopper Scholar, Rewriting the Code Fellow, National Merit Scholar, Presidential Scholar, 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, Differential Equations, Calculus

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

- Graduated in three years with Maximum Honors
- National Honorable Mention - National Center for Women in Information Technology (NCWIT) Aspirations in Computing Award

TOOLS AND TECHNOLOGIES

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

WORK EXPERIENCE

AFE Software Development Engineer Intern • Amazon — May-August 2019

- Created a full-stack web application that facilitates meeting scheduling for data providers and the AmazonAPI governance body
- Streamlined the code revision approval process for all Amazon Software Engineers whose code directly affects Amazon.com
- Reduced time taken to schedule meetings by 80% on average by automating user authentication, user authorization, time slot selection, time slot reservation, calendar event creation, and attendee invitation via email notifications

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

- Develop a comprehensive introductory computer science curriculum highlighting input, output, arithmetic, conditionals, and loops
- Lead coding events and teach over 100 K-12 students from historically underserved communities in the surrounding LA area

Information Technology Intern • West Hartford Public Schools — June-July 2018

- Managed technology upgrades at 14 Connecticut schools by overseeing device inventory, configuration, and network administration
- Registered, set up, and troubleshot over 1000 different devices, improving access to technology for over 5000 students districtwide

TECHNICAL PROJECTS

AAPI Meeting Scheduler • HTML, CSS, JS, Node.js, Ajax, AWS Lambda, DynamoDB, SES, REST APIs — May-August 2019

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

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

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