AVA DELACRUZ

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EDUCATION

University of Southern California • GPA: 3.84   Expected Graduation: 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, Data Structures, Algorithms, 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 proposal review meeting scheduling with the AmazonAPI Governance Body
- Automated user authentication, user authorization, time slot selection, time slot reservation, calendar event creation, and attendee invitation via email notifications using HTML, CSS, Javascript, Node.js, AWS Lambda, DynamoDB, SES, and API Gateway
- Streamlined the code revision approval process for all Amazon Software Engineers whose code directly affects Amazon.com
- Reduced the amount of time needed to schedule meetings by 80%, positively impacting 20-25 unique data providers every week

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 Los Angeles area

Information Technology Intern • Town of West Hartford   June-July 2018
- Managed technology upgrades at 14 public 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 time slot 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