TONY AIELLO
Software Developer

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Portfolio | LinkedIn | GitHub

TECHNICAL SKILLS

Languages: *HTML, CSS, Javascript/Typescript, Python, Java, Unix*
Frameworks/Libraries: *ReactJS, NextJS, NodeJS, Tailwind, Material UI, Bootstrap, Halfmoon, Flask, Jinja2, Spring Java, Hibernate*

Databases: *MySQL, MongoDB*
Tools: *AWS(EC2), MySQL workbench, Git, Github, Postman, Spring Tools Suite, Docker*

PROFESSIONAL EXPERIENCE

AP Computer Science & Math Teacher | *Los Angeles Unified School District*   **Los Angeles, CA | 2016 - 2022**
- Planned and delivered the computer science and mathematics curriculum to 1000 students over 6 years, emphasized collaborative learning, cultural relevance teaching, and access to learn computer science in underserved communities. In 2019 and 2020, my classes received the AP Computer Science Female Diversity Award.
- Lead Senior Advisory Teacher Team on lesson planning, school-wide events, fundraisers, and field trips for the senior class.

Library Technician | *Ventura Unified School District*   **Ventura, CA | 2013-2016**
- Designed HTML/CSS pages on Adobe Dreamweaver and used FTP software to send pages to the district server hosting the school's website

SOFTWARE PROJECTS

SET | GitHub | Live Site   **TechStack:** MongoDB, Express, React in Javascript, AWS EC2
A time limited web-based card game: users have 10 mins and 81 cards to make "sets" of 3 based on properties of the card.
- Created a global state using the **React** useContext and useReducer to encapsulate the game controls in a provider to avoid passing core game state/functions between adjacent props.
- Enhanced speed by eliminating need for image data by customizing code for card drawings with **svg tags** based on endpoints from the game server.
- Deployed web app to an **AWS EC2** serve, enhanced user engagement by integrating live leaderboard with player scores, and delivered a cross platform responsive UI with customized CSS and media queries

Everyday | GitHub   **TechStack:** Python, Flask, MySQL, Jinja2, APScheduler
Social media platform that enables users to post comments, send secure private messages and at 12:00am all posts / comments are cleared… once a day, everyday!
- Built a login and registration with **Bcrypt** password protection, email and password validations, and a default avatar on registration using MySQL to save the account data.
- Utilized the **Jinja2 HTML** template system to iterate through HTML blocks of user posts, comments, and displaying friends in the 'Find Friends' section.
- Implemented a multipart/form-data HTML to save user images to the server's assets directory. The path of the image is attached to the user's account for avatar/post reference.
- Administered a scheduled python script to delete all comments and user posts at 12:00am using the python library **APScheduler**.

Student Support System | GitHub   **TechStack:** Java, *Spring Tools Suite,* MySQL, Twilio API
Student database web system that allows different adult support (counselors/teachers) to share support notes binded to the student, and visible to only the adults that support that student.
- Designed different user account roles using the **Java Spring Security** for authentication and authorization to only allow counselors (admin) add students to the system, and teachers (users) only be able to add support notes.
- Implemented a custom phone number validator using the **Twilio API** to validate the imputed phone number is a real phone number.
- Utilized the **Faker API** and a custom controller route to quickly populate random student/guardian data for testing.

EDUCATION

Coding Dojo | *Full-Stack Developer Certificate*   Los Angeles, CA (2022)
- 16 weeks intensive coding bootcamp: 1000+ hrs of full stack web development, algorithms, peer programing

University of California - Santa Barbara | *Bachelors in Mathematics*   Santa Barbara, CA (2009 - 2013)