VALENCIA STARR

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PROFESSIONAL EXPERIENCE

The Knowledge House, *Technical Instructor (contract)*, Bronx, N.Y., (07/2019-02/2020 , 06/2025-08/2025 , 05/2026-08/2026)
- Designed, built, tested, and deployed a course registration system using **HTML**, **CSS**, **JavaScript**, **Netlify**, **Flask**, **SQL**, and **Render**.
- Wrote technical documentation on the course registration system specifying system design, database schema, API endpoints, and required credentials so other developers could make contributions**.**
- Created a **GitHub** project for high school students with documentation on how to use **Flask** to create a full-stack application.

CUNY College of Staten Island, *Computer Science Instructor, Adjunct Lecturer (contract)*, Staten Island, N.Y., 07/2025-08/2025
- Designed, built, tested, and deployed a grade tracking system with **REST API** endpoints using **Express**, **Render**, **Git**, and **GitHub**.
- Created documentation on the grade tracking system providing details on data structure and function specifications.
- Provided instructions for end-users on how to use the application.

Flatiron School, *Software Engineering Instructor,* New York, N.Y., 11/2022-09/2023
- Designed, built, tested, and deployed a course management system scaled to support 1,000+ users with authentication, authorization, password security, and secured **REST API** endpoints implementing **React**, **Flask**, **SQL**, and **Render**.
- Created **GitHub** projects for young adult learners specifying how to clone a coding project and use the existing code base to build front-end, back-end and full-stack web applications with specifications for API endpoints and necessary headers.
- Wrote documentation for young adult learners specifying how to install dependencies for coding projects and run tests.

The Knowledge House, **Change Food for Good (contract)**, *Web/Android Developer Intern*, Bronx, N.Y., 04/2019-12/2019
- Built, tested, and deployed an **Android** application scaled to support 1,000+ users where farmers could view real time crop data.
- Added authentication and rendered data from **API endpoints** so farmers could exclusively see data pertaining to their crops.
- Used **Node.js** to build user interfaces where participants could enroll in training, sign up for events, or host events.

Revature, *Software Developer Intern*, Reston, V.A., 07/2016-08/2016
- Utilized **Java**, **JavaScript**, **Bootstrap**, and **Oracle DBMS** to build an employment reimbursement system scaled to support 500+ users where employees could submit requests for reimbursements.
- Added features where managers could approve or deny reimbursement requests.
- Built a **Java** library that could be implemented in applications to add features allowing for the sending of email.

CUNY City College (LSAMP), *Full-Stack Developer Intern*, New York, N.Y., 09/2014-01/2015
- Leveraged **PHP**, **MySQL**, **HTML**, **CSS**, and **jQuery** to add forms, search, and email functionality to a web application scaled to support 500+ users where students could apply for research.
- Developed plugins where administrators could send broadcast emails and search for applications.
- Provided a workshop promoting the launch of the application.

PROJECTS

Animals and Nature, *Personal Project* (https://github.com/starrv/animals-and-nature)
- Used **PHP**, **jQuery**, **Bootstrap**, and **MySQL** to build a message board for animal enthusiasts scaled to support 1,000+ users.
- Built features where users upon logging in could create threads where they could engage in discussions.
- Implemented **Spring Boot**, **MongoDB**, **AWS SNS**, **AWS Lambda**, **Okta**, and **Next.js** to build an administrator dashboard with authentication, authorization, password security, and secured API endpoints where administrators could view user feedback.

Let's Chat, *Personal Project* (https://github.com/starrv/ChatClient)
- Utilized **Java** to develop an instant messaging application that concurrently supports up to 50 users.
- Developed features allowing users to send messages to all participants or private to specified participants.
- Built features where all messages are encrypted using a self-designed encryption algorithm before being transmitted.

Lets Paint, *Personal Project* (https://github.com/starrv/paint)
- Employed **Java** to create a graphics editing program where one could create, edit, and print vector images.
- Built create, save, print, undo, redo, and delete features where users could draw, paint, and add text in various colors and fonts.
- Added audio playback features.

EDUCATION

CUNY Lehman College, Bachelor of Science in Computer Science, Bronx, N.Y., GPA: 3.8, 05/2015

Union College, Bachelor of Science in Mathematics, Schenectady, N.Y., 06/2009