

VALENCIA STARR

starrv2011@gmail.com | [+1\(347\)770-6819](tel:+1(347)770-6819) | <https://starrv.github.io>

Technical Instructor with 3+ years of experience teaching software development, mentoring diverse learners, and guiding students through real-world projects using modern technologies such as HTML, CSS, JavaScript, Python, SQL, React, Flask, Figma, Render, Netlify, Git, GitHub, and AWS.

PROFESSIONAL EXPERIENCE

CUNY College of Staten Island, Adjunct Computer Science Lecturer, Staten Island, N.Y. 07/2025-08/2025

- Delivered lectures on the JavaScript programming language, data types, data structures, and control flow resulting in students gaining the skills to build personal Node.js applications that store and process data.
- Instructed students in using HTML, CSS, JavaScript, and the Fetch API to build interactive user interfaces facilitating project completion.
- Assisted students with debugging, deployment, and provided code reviews resulting in 100% project completion.
- Provided a lecture to students on using Express and Render to build and deploy a grade management system resulting in students gaining foundational knowledge on full-stack development motivating them to pursue further study.

The Knowledge House, Technical Instructor, Bronx, N.Y. 07/2019-02/2020 & 06/2025-08/2025

- Used Figma to create a mockup for a digital portfolio to demonstrate to students how to plan the design of an application before building it resulting in students creating mockups for their personal web applications.
- Provided lectures on using HTML, CSS, and JavaScript to build front end applications.
- Developed slides for lectures, office hours to help students with learning concepts and project completion, and graded assignments,
- Implemented HTML, CSS, and JavaScript to build a visual novel to demonstrate interactive application development resulting in 50+ high schoolers building their personal web applications for their capstone projects.
- Provided a lecture to beginner students on using Bootstrap for responsive design resulting in beginner students building their first web application with responsive design.

Flatiron School, Software Engineering Instructor, New York, N.Y., 11/2022-09/2023

- Delivered instruction in full-stack development, covering frontend (HTML, CSS, React) and backend technologies (Flask, SQL, APIs) utilizing best practices resulting in 20+ students completing capstone projects.
- Developed lesson plans, instructional materials, and assessments aligned with course learning objectives.
- Assessed student performance through assignments, assessments, projects, and code reviews.
- Provided lectures to 20+ students on using React, Flask, and Render to build and deploy a course management system providing foundational knowledge of deployment.
- Provided Leetcode workshops to 50+ students to teach data structures and algorithm concepts preparing them for technical interviews increasing students' knowledge of data structures and algorithms motivating them to pursue further study.
- Facilitated the completion of group and capstone projects by helping with system design, debugging, and merge conflicts.
- Created GitHub repositories for access to coding projects for lectures, study halls, and further study.

The Knowledge House, Change Food for Good (contract), Web/Android Developer Intern, Bronx, N.Y. 04/2019-12/2019

- Designed and deployed an Android application where 1,000+ farmers could track their crop data by viewing current crop readings and graphs depicting changes in crop data over specified periods of time.
- Added account creation, login, logout features and fetched data from appropriate API endpoints so farmers could exclusively see data pertaining to their crops.
- Used Node.js to build user interfaces where participants could enroll into training, hosting, and 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 where 500+ employees could submit requests for reimbursements and 100+ managers could provide updates.

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CUNY City College (LSAMP), *Full-Stack Developer Intern*, New York, N.Y.

09/2014-01/2015

- Exercised PHP, MySQL, HTML, CSS, and jQuery to add forms, search, email functionality to a web application where 500+ students could apply for research and administrators could send broadcast emails plus search for applications.
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PROJECTS

Animals and Nature (Personal Project)

- Used PHP, jQuery, Bootstrap, and MySQL to build a web application where 1,000+ animal enthusiasts could create an account and start discussions pertaining to animals and nature by posting questions, comments, and media.
- Exercised Spring Boot, MongoDB, AWS SNS, AWS Lambda, Okta, and Next.js to build a complimentary web application where administrators could view user feedback.

Let's Chat (Personal Project)

- A **Java** application that supports a group chat with up to 50 users.
- Used object oriented programming principles and concurrency to build features allowing users to
- send encrypted messages to all or private to select users.

Lets Paint (Personal Project)

- Employed Java to build a graphics editing program where one can draw, paint, and add text in various colors with create, save, print, undo/redo, and delete features.

Split Cost (Personal Project)

- Designed a web application that determines each person's share of a group dining bill using HTML, CSS, JavaScript, and jQuery.

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