

# LUCAS J. LAVALVA

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## TECHNICAL SKILLS

| Programming Skills  | Top Programming Languages   | Frameworks and Tools   | Other / Miscellaneous   |
|---|---|--|---|
| Test-driven development<br>Machine Learning<br>Object-Oriented Design<br>Working with a UNIX machine<br>Git / GitHub / GitLab | JavaScript / TypeScript / Node.js<br>Python<br>C / C++<br>PHP<br>Bash / Shell Scripting | React / ReactJS<br>Angular<br>MongoDB / MySQL / ElasticSearch<br>Docker<br>Flask | STEM Education<br>Blender<br>Circuit design<br>Google Apps Script / GSuite<br>Technical Writing |

## EDUCATION

BS in **Computer Science**, BA in **Mathematics**

anticipated **May 2022**

Rowan University, Glassboro NJ

GPA: 3.95/4.0

Minor in Sociology, concentration in Honors

President's List, Dean's List, Computer Science Honors Society (UPE)

## RELATED EMPLOYMENT

**Software Engineer** (GiveSignUp|RunSignUp, Moorestown NJ)

**May 2021 - Present**

Full Stack Development

Developed software for the GiveSignUp|RunSignUp platform and worked with a large codebase written primarily in PHP and JavaScript with a MySQL database. Constructed APIs for GiveSignUp, worked on UI/UX design, and implemented various other features.

**Research Contractor** (Bristol Myers Squibb and Rowan University CS Dept, Glassboro NJ)

**September 2020 - May 2021**

Developer Operations

Built a framework to connect backend Natural Language Processing algorithms operating on patent data to a user-facing frontend.

**Research Assistant** (Rowan University Mathematics Dept, Glassboro NJ)

**February 2019 - April 2021**

Nonbinary ECOC machine learning

Developed an optimal n-ary matrix construction for ensemble learning with Error Correcting Output Codes resulting in a publication.

**Internship Experience** (Vericle/eSpoc, Marlboro NJ)

**January 2018 - June 2018**

Front End Development

Used TypeScript with Angular 6 to develop a user interface for the company's bug report and feature request system.

## OTHER EMPLOYMENT AND EXPERIENCE

**Math and Programming Teacher** (MindBytes, Marlton NJ)

**June 2020 - September 2021**

**Student Teacher Internship** (Corey Waters, Rowan University, Glassboro NJ)

**January 2020 - May 2020**

**Tutor / Teaching Assistant** (Rowan University, Glassboro NJ)

**September 2019 - December 2020**

**Window Repair Technician** (Dr. J's Window and Screen Hospital, Point Pleasant NJ)

**Summers 2018-2019**

## EXAMPLE PROJECTS

**Project Titan** (Interactive phone system and information management tool for amusement parks)

Designed a voice-based user interface for ride operators and employees to log information to a database

**Forum** (Wikipedia-esc forum platform with users, permissions, and a comments section on each page)

Worked with a team to develop a system in which users can create and edit simple documents and comment

**Nodevember 2020** (daily challenge to learn and use exclusively Blender3d's shader nodes to create procedural designs)

Created 30 procedural shaders on primitive objects in response to daily prompts. Available on Twitter [@LaValva Luke](#).

## HONORS, AWARDS, AND ACHIEVEMENTS

Rowan Outdoors Club Vice President (Fall/Spring 2021)  
Rowan University IDEA Challenge - 4th place (Spring 2020)  
Presentation at Cherry Hill East Hackathon (Fall 2018)

Rowan Rock Climbing Club E-board (Fall/Spring 2021)  
Google Student Developer Clubs - Core Officer (Fall 2020)  
BSA Eagle Scout Award (Spring 2018)

## REFERENCES

[bob.bickel@runsignup.com](mailto:bob.bickel@runsignup.com) (Bob Bickel, GiveSignUp|RunSignUp)  
[learn@mindbytes.co](mailto:learn@mindbytes.co) (Pavithra Lakshminarayan, MindBytes)  
[contact@drjswindowandscreenhospital.com](mailto:contact@drjswindowandscreenhospital.com) (Tom Monardo, Dr. J's)

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