

## Jacob Vernau | Software Engineer

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I'm a software engineer passionate about front end application development, problem solving, & clean code. My primary tools include Javascript, React, HTML, and CSS (vanilla & Bootstrap). With a background in behavioral health, I bring problem solving, account management, and critical thinking. As an engineer, I aim to find innovative solutions to complex problems at every phase of the project lifecycle.

### Technical Skills

**Languages** - JavaScript, HTML, CSS, Python 3, Mongoose, JSX, EJS, & HBS

**Database** - JSON, PostgreSQL, SQL, & MongoDB (NoSQL) | **Other** - RESTful Routing, API, Git, & Github

**Cloud** - Netlify, Heroku, Github Pages

**Web Frameworks & Libraries** - React, Redux, Django, Bootstrap, Express.js, & Node.js

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### Software Engineering Projects

[Trailblazers](#) | [Hosted Site](#) | Group Project | **MERN** app to learn about national parks May 2022 - Present

- Created reusable, styled **JSX** functional component architecture for UI/UX (cards, navbar, searchbar, & sidebar, and popup cards)
- Linked third party **API's** (Google maps & National Park Services) to relevant components
- Led **CSS** coordination across team for fluid, consistent component design
- Utilized **Git** team workflow for version control and continuous integration / continuous delivery
- Utilized **agile** methods 2 week sprint- achieved functionality (MVP) in 7 days

[Slope Notes](#) | [Hosted Site](#) | Solo Project | Skiing/Snowboarding app to notate day trips to various resorts April 2022

- Made **REST API** fetch calls to an **Express, MongoDB, Node.js** backend handling all create, read, update, delete (**CRUD**) operations, and tested all backend routes during development using **Postman**
- Used **Mongoose** to complete data design for **MongoDB** collections
- Implemented **Styled Components** alongside **CSS** to provide style and flexbox layout
- Maintained consistent & effective documentation across entire stack

[Connect Four](#) | [Hosted Site](#) | Solo Project | Browser clone of the popular Connect Four game March 2022

- Wrote **HTML** and **CSS** and then leveraged it with **Javascript DOM-Manipulation**
  - Wrote **Javascript** to run logic necessary for game flow
  - Created mockups and wireframes for rapid prototyping
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### Professional Experience

School Counselor | Jeffco Public Schools | Denver, CO August 2021 - July 2022

- Presented data to C-Suite and secured funding and approval to implement new testing system to increase graduation requirement fulfillment from **15% to 73%**
- Redesigned, developed, and maintained the department website utilizing user feedback
- Implemented innovative new software to better collaborate with universities to increase student engagement and access to college opportunities
- Proactive, flexible caseload management of 200+ students for social-emotional learning, academics, and career counseling

School Counselor | Cherry Creek School District | Denver, CO

July 2019 - July 2021

- Redesigned college programming to be more automated leading to an increase college enrollment from **22%** to **35%**
- Implemented data-driven interventions to increase annual attendance rate by **4%** and reduce suspensions by **10%**
- Leadership role in weekly cross functional teams including c-suite to identify, execute, and evaluate interventions
- Designed college and career programming with a focus on scalability and low-maintenance

Background Investigator | CACI, International | Arlington, VA

July 2016 - May 2017

- Conducted investigations for determining eligibility for security clearance
- Delivered concise, standardized reports based on collected information
- Obtained TS/SCI security clearance

Security Liaison | The Webster Group | Washington, D.C.

May 2015 - July 2017

- Coordinated security for Supreme Court Justices representing 6 African Nations at a 4-day summit
- Frequent communication with CEO and Project Managers on needs of clients representing healthcare, logistics, and aviation industries
- Liaised with the US Secret Service to coordinate security at presidential inauguration events, White House Correspondents' Dinner, and National Governors' Association meetings
- Coordinated mission logistics for international reverse trade missions with the US Trade Development Agency

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## EDUCATION

General Assembly | Remote

January 2022 - July 2022

### Software Engineering Immersive

Full-stack software development immersive student in an intensive, 24-week, 450+ hour program focused on web development fundamentals, coding best practices, object-oriented programming, MVC frameworks, data modeling, and team collaboration strategies. Developed a portfolio of individual and collaborative group projects.

Clemson University | Clemson, SC

July 2017 - May 2019

Master of Education (MEd), Counseling

Educational Specialist (EdS), Counseling

Clemson University | Clemson, SC

August 2012 - May 2016

Bachelor of Science (BS), Psychology