

# CALVIN SIENATRA

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## EDUCATION

**Bachelor of Science in Computer Science • Certificate in Digital Studies**  
University of Wisconsin - Madison • Overall GPA 4.00/4.00

**Madison, WI**  
**May 2021**

## SKILLS

Strong knowledge in full-stack web and mobile application development, UNIX-based API development, and familiarity with data science

- Languages : Proficient in Python, Java, C, SQL, JavaScript, and UNIX/Linux commands; familiar with C++ and PHP
- Libraries : Proficient in ReactJS, NextJS, React Native, NodeJS, Flask, and Bootstrap; familiar with JQuery, MongoDB, and CodeIgniter (MVC)
- Tools : Proficient in Sublime Text, Git, Anaconda, JupyterLab, Eclipse, Adobe Photoshop, Illustrator, and XD

## COURSES

Data Structures in C++ (A)	Data Structures in Java (A)	Linear Algebra (A)
Introduction to Artificial Intelligence (A)	Machine Organization in C (A)	Introduction to Algorithms (IP)
Computer Graphics (IP)	Matrix Methods in Machine Learning (IP)	

## WORK EXPERIENCE

**Frontend Engineer & Data Scientist**

**Madison, WI**

**Space Science and Engineering Center (SSEC)**

**November 2019 – Present**

- Devise **PCA** and **machine learning** models allowing researchers to identify clouds 90% faster
- Design and implement NASA JPL's Earth Venture-Instrument PREFIRE website using **Jekyll** and **Bootstrap** to attract non-experts
- Organize and document the codebase to make website details easily modifiable by people unfamiliar with web programming

**Full Stack Developer**

**Madison, WI**

**National Magnetic Resonance Facility at Madison (NMRFAM)**

**October 2019 – Present**

- Develop a full-stack **ReactJS** and **Flask** application to automate the NMR metabolite identification process
- Formulate a custom **Python**-based **CSV** parser to read complex metadata files 50% faster and return error messages

**Full Stack Mobile App Developer**

**Surabaya, Indonesia**

**Freelance**

**July 2019 – August 2019**

- Delivered a **React Native** loyalty and rewards mobile application to a local restaurant, increasing its sales by 30%
- Achieved zero server downtime by personally managing and solving problems in the backend **Azure** cloud server host

## INVOLVEMENT

**Developer Student Clubs at UW-Madison; Google Developers**

**Public Relations Coordinator**

**November 2019 – Present**

- Communicate with UW-Madison faculty and community members to establish the organization's legitimacy
- Build the organization's internet presence to further its prominence in the Madison area
- Recruit UW-Madison students and lead the public relations team

**Garuda Bisa**

**Web Developer**

**August 2017 – May 2019**

- Overhauled Garuda Bisa's website using **ReactJS** and **Bootstrap** to increase user readability and simplify the registration process
- Gathered feedback from users to improve the website on a biweekly basis

## PROJECTS

**COVID-19 Infection Tracker**

**Full Stack Developer**

**July 2020 - Present**

- Produce a full-stack **ReactJS** and **Flask** application to inform the public of their current county's infection risk category
- Pioneer a custom **k-means** algorithm to linearly categorize each U.S. county's COVID-19 infection rate

**Paperless**

**MadHacks 2019 Capital One Best Financial Hack**

**October 2019**

- Proposed and led the development of an electronic receipt mobile app and won Capital One's best financial hack
- Built a simple and easy-to-use **React Native** frontend application for Android devices to maximize user experience