

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 organization's legitimacy
- Build 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