Pambayun Hemas Savira

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EDUCATION

University of St. Thomas, St. Paul, MN *Expected: May 2022*
Bachelor of Science in Computer Science, GPA: 3.95

- *Minors: Statistics and Data Analytics*

TECHNICAL SKILLS

Java ● Python ● JavaScript ● MySQL ● SQL Server ● Git ● C/C++ ● C# ● HTML/CSS ● R ● Bash ● Linux ● PowerShell ● REST API ● Node.js ● VueJS ● Agile ● PowerBI ● MongoDB

COMPUTER SCIENCE PROJECTS

- Used Object-Oriented Programming on Java to build to-do items, stored as CSV files based on user's username, that can be sorted based on dates or importance levels, with an emphasis on Error-handling.
- Created a RESTful web server for St. Paul crime data by utilizing SQL queries, Vue JS framework, Leaflet, Nominatim, Node.JS and implemented a number of API routes relating to the data.

WORK EXPERIENCE

Argonne National Laboratory, Leadership Computing Facility **Lemont, IL**
Research Aide Technical - Junior *June 2021 – present*

- Implemented in situ workflow using distributed computing with MPI in C++ for a computational fluid dynamic then visualized, analyzed, and applied feature detection to the simulation
- Developed interactive widgets to fine-tune the feature detector
- Final implemented simulation resulted in over 30% faster animation, and the interactive widgets make fine-tuning the feature detector easier by over 50%.
- Utilized a conda environment to install necessary modules through a Bash shell
- Debug and test new and existing codes throughout the process
- Co-published Pambayun H. Savira, Thomas Marrinan, Michael E. Papka "Writing, Running, and Analyzing Large-scale Scientific Simulations with Jupyter Notebooks" in 2021 IEEE VIS: Visualization & Visual Analytics

University of St. Thomas, Computer & Information Science **St. Paul, MN**
CISC 130/131 Tutor *Sep 2020 – present*

- Brainstormed solutions to coding problems with students struggling to take the initial approaches
- Guide students through code debugging process in Python, C/C++, and Java

University of St. Thomas, Computer & Information Science **St. Paul, MN**
STAT 320 Teaching Assistant *Oct 2020 – present*

- Grade over 300 RStudio assignments and provide comprehensive feedback on various form of regression models, simultaneous inference, model selection and validation, model violations, and addressing collinearity
- Assist the professor's research project on statistics education, especially with regard to computing, by reading related research papers and coding qualitative data

University of St. Thomas, Residence Life **St. Paul, MN**
Resident Advisor *Aug 2020 – present*

- Build intentional and educative relationships with residents, and help build a community
- Manage paperwork and communicate effectively with the supervisor and the team members

University of St. Thomas, Diversity Activity Board **St. Paul, MN**
Program Coordinator *Aug 2019 – May 2020*

- Organized fun, interactive, and educative events that promote inclusion and social justice for Tommies of all identities, including facilitating conversations on diversity

- Communicated effectively with the supervisor and the team members, including engaging in constructive and respectful feedback with each other

University of St. Thomas, Office of International Students & Scholars **St. Paul, MN**
International Orientation Leader *Aug 2019 – Sep 2019*
- Created an inclusive environment and identified resources for incoming international students to be successful
- Engaged in community building conversations with students to encourage supportive relationships
- Role modeled appropriate academic achievement, community engagement, and mental well-being

University of St. Thomas, O'Shaughnessy-Frey Library **St. Paul, MN**
Circulation Desk Assistant *Sept 2018 – Sept 2020*
- Work effectively with a wide variety of people in a team with emphasis on serving our patrons.
- Assist over fifteen patrons per day via phone and face to face in a helpful way.

LEADERSHIP DEVELOPMENT & ACADEMIC AWARDS

***Sarah A. Stevenson International Scholarship,* St. Thomas, OISS, St. Paul, MN** **Oct 2021**
- Recognized for academic and campus achievements

***International Student Leadership Scholarship,* St. Thomas, OISS, St. Paul, MN** **May 2021**
- Recognized for outstanding leadership and contributions to the integration of international students and international awareness at St. Thomas

***Fellow*, Stanford University Innovation Fellows, Stanford, CA** **May 2020 – present**
- Use *DesignThinking* and interdisciplinary collaborations to find innovative solutions to better St. Thomas
- Prototype and test the solutions before implementing it to the wider campus population

***President*, St. Thomas Computer Science Club, St. Paul, MN** **May 2021 – August 2021**
- Plan club programming outreach events to build community of programmer
- Organize meetings by inviting speakers and companies' representative

***Scholar*, IEEE VR 2021 Bridge to VR Program, Lisbon, Portugal** **Mar 2021**
- Use *DesignThinking* and interdisciplinary collaborations to find innovative solutions to better St. Thomas
- Prototype and test the solutions before implementing it to the wider campus population

***Scholar*, St. Thomas, Aquinas Honors Program, St. Paul, MN** **Dec 2018 – present**
- Engage in volunteer activities, scholarships, seminars, and community building with the school's most talented and dedicated students

***Treasurer*, St. Thomas, Computer Science Club, St. Paul, MN** **Apr 2020 – May 2021**
- Manage the club budget and plan club meetings by inviting speakers and companies' representative

***President*, St. Thomas, Globally Minded Students Association, St. Paul, MN** **Sep 2018 – May 2020**
- Represented the club to the larger campus community and chaired the club's meetings
- Served as International Dinner Committee Leader during 2018-2019 academic year

***Secretary*, St. Thomas, Neuroscience Club, St. Paul, MN** **Sep 2018 – May 2020**
- As a Secretary, kept an accurate record of minutes and attendance for Executive Board and general meetings

***Leading Edge Award*, St. Thomas, Biology Department, St. Paul, MN** **December 2019**
- recognized and honored as the most outstanding students in core biology courses