Ronnie Delos Santos

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https://rin.dev

Third-year computer science major at the University of Portland. I love exploring the small web. And, I hope to be a part of something bigger than myself.

EXPERIENCE:

University of Portland, Portland OR — *CS Undergraduate Research Assistant*

September 2024 - Present

University of Portland, Portland OR — CS *Teaching Assistant*

August 2024 - Present

Assisting students in mastering Unix/Linux system administration and shell scripting during lab sessions, building on the JupyterHub environment previously implemented.

Rewriting and updating lab materials into interactive Jupyter Notebooks, enhancing student engagement and making complex Unix/Linux concepts more accessible.

Responsible for administering and maintaining Linux systems used in the lab environment including user management, configuring network settings, ensuring system security, and troubleshooting issues for a smooth and reliable experience for students and faculty.

Nbgrader, JupyterHub, Python, Unix/Linux

University of Portland, Portland OR — CS *Summer Undergraduate Research Assistant*

May 2024 - August 2024

Implemented an installation of JupyterHub into the CS 376 Unix/Linux lab, providing students with seamless access to pre-configured computational environments allowing students to focus on learning rather than system setup, significantly improving the user experience.

Integrated nbgrader within JupyterHub to streamline the grading process for instructors. Utilized natural language processing to automate the grading of complex free-response questions, reducing instructor workload and increasing grading consistency.

Nbgrader, JupyterHub, Python, Unix/Linux

University of Portland, Portland OR — *Malawi Engineering Capstone*

January 2024 - June 2024

Architecting and deploying end-to-end tested full-stack academic recordkeeping systems for secondary schools and borehole catalog systems for the country of Malawi.

Collaborated with Malawi government officials and educators from St. Mary's Secondary School and the University of Mzuzu to gather feedback and iteratively improve projects, focusing on user-centric design and addressing real-world challenges faced by educational institutions.

Delivered a talk to 50 students at St. Mary's Secondary School on the significance

EDUCATION:

Wasilla High School

University of Anchorage Alaska

Mat–Su CNA Nurse Aide Certificate Program

University of Portland pursuing B.S.C.S.

LICENSE & CERTIFICATION:

Alaska CNA License 185056

Basic Life Support (BLS) Certification

REFERENCES:

Jeff Parrish, 10+ years software engineering (mentor)

Angie Thursby, RN (mentor)

Martin Cenek, PhD (undergraduate advisor)

AWARDS:

2024 Gilman Scholar

2021 AP Scholar with Honor

EXTRACURRICULARS:

Skateboarding

Journaling

and application of computer science, motivating them to pursue technology-driven careers.

Participated in workshops and training sessions to educate community members and students on scholarship and grant writing, fostering long-term educational opportunities.

TypeScript/JavaScript, Node.js, Next.js, React, Linux, Ansible, Docker, Kubernetes, PostgreSQL, Vitest, Cypress, Tailscale

University of Portland, Portland OR — *CS Undergraduate Research Assistant*

September 2023 - May 2024

Developed IoT solutions for water irrigation monitoring in Malawi, Africa, utilizing embedded systems and low-power communication protocols to improve agricultural efficiency. Designed and implemented firmware for Arduino and Raspberry Pi devices, ensuring reliable data collection and communication via I2C, SPI, and LoRa protocols.

C/C++, IoT, Arduino/embedded, Raspberry Pi, protocols (I2C, SPI, LoRa), SSH

Mat-Su CNA Training Program LLC, Palmer AK — *Front-End Developer*

June 2022 - August 2022

Collaborated with clients to gather requirements and input for a new company website design, ensuring that the final product met business objectives and user needs. Created responsive and accessible web interfaces using TypeScript, TailwindCSS, and Next.js, delivering a visually appealing and user-friendly experience.

Next.js, TypeScript/JavaScript, React

Maple Springs of Palmer, Palmer AK — *Certified Nursing Assistant*

September 2021 - July 2022

Assisted patients with activities of daily living and supported nurses in the care of residents, ensuring a high standard of patient care and comfort. Accurately measured and documented patient vital signs, contributing to effective medical care and monitoring.

Caring Hands Assisted Living Facility, Wasilla AK — *Caregiver*

August 2021

Assisted elderly and disabled patients with daily living activities, including personal care, transportation, and companionship, promoting their well-being and comfort.

Forking Software LLC, Remote — *Programmer*

August 2021 - December 2021 (Contract)

Delivered freelance technical writing and programming consultation services, producing clear and informative documentation for diverse software projects.

McDonalds/MRD Inc., Wasilla AK — *Crew Member*

July 2020 - March 2021

Greeted customers, operated kitchen equipment, and maintained cleanliness, ensuring a positive dining experience for patrons. Managed cash register operations, promoting special deals and efficiently processing customer orders.