

PAUL NAM

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EDUCATION

University of Washington Bothell

Sep. 2020 - Aug.2022

- **Major:** Electrical Engineering, B.S.E (in-major GPA: 3.43)
- **Relevant Coursework:** Microcontroller System Design, Digital Circuit and Systems, Signal Processing, Java I & Java II

EMPLOYMENT

Co-Founder

Layrd (Startup)

April - Present 2023

Study Social Platform ([Layrd](#)): Online platform that helps connect people for research engagement

- Designed and implemented a responsive and fully functional website utilizing React, Javascript, and Tailwind CSS.
- Supported building a model of the database to successfully deploy the server and database to EC2 and RDS utilizing FLASK and SQLAlchemy.
- Integrated API calls, utilizing **CRUD**, to the website by coordinating with a backend developer.
- Leveraged knowledge in Full Stack Web Development, Git, React, JavaScript, Tailwind CSS, CRUD, and debugged using Chrome Developer Tools.

Electrical Design Engineer

PACCAR

Nov - Present 2023

Semi Commercial Truck Manufacturing Company

- Developed a software that automates key truck integration tasks and enhanced work efficiency by 30%.
- Designed electrical systems, such as engine and safety harness systems, and coordinated testing processes.
- Leveraged knowledge in Six sigma, semi automobile design process, and CREO.

Electrical Test Engineer

Qualitel

Aug - Nov 2022

Electronic Manufacturing Company

- Troubleshooted one of the leading production lines and secured more than \$2 Million dollars revenue.
- Supported building test fixture of a medical device using Labview by referencing Python3 script.
- Leveraged knowledge in Python3, communicating with clients, and troubleshooting various PCB using oscilloscope, multimeter, and automation test fixtures.

SOFTWARE PROJECTS

Personal Website: [Paul's Website](#) (for additional information)

MukJa Web (Let's Eat)

- Developed a full stack site using React and Flask, allowing users to create, delete, edit, and share recipes.
- Designed a hybrid of star and snowflake database using SQLAlchemy, PostgreSQL, and Marshmallow.
- Created **CRUD** APIs and integrated in frontend interface utilizing EC2 and RDS environment.
- Utilized React, Javascript, Flask, PostgreSQL, Firebase, Marshmallow, Tailwind, Git, Docker

Privacy-Preserving Image Processing for IoT (Undergraduate Research - [IEEE Publication](#))

- Developed an IoT application that applies homomorphic encryption to multi-level image thresholding using C++, OpenCV, Microsoft Simple Encrypted Arithmetic Library (SEAL) in UNIX environment.
- Proposed a small circuit depth multi-level thresholding algorithm in the homomorphic encryption domain.
- Leverage knowledge in C++, OpenCV, SEAL, Unix environment, and Verilog to automate test execution.

Skills

- Software: (Proficient): Python, Javascript, Unix, Git (familiar): C++, Java, Typescript, SQL, HTML/CSS