# VINCENT PHAM

**University of Nevada, Reno**

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## TECHNICAL EXPERIENCE

Student System Administrator

**Engineering Computing Center (UNR)**

📅 Janurary 2020 – Present    📍 Reno, NV

- I worked on full-stack applications helping to make remote services more accessible to hundreds of students. We worked with virtualization and distribution of Linux and Windows containers students could use by simply accessing a web page. My work consisted of creating front-end forms, management dashboards, and automating the Linux containers.
- My main responsibilities are to work on improving infrastructure, management, and maintenance of the services/hardware we provide to both students and professors. Gained knowledge about UNIX systems, development, automation, and testing.
- Managing and maintaining a network of 350 Linux/Windows computers, printers, and servers.

Research Assistant (Programmer)

**Dr. Simon Pieraut (UNR)**

📅 Feb 2017 – June 2018    📍 Reno, NV

- I worked with a neuroscience project before I switched to computer science, writing several MATLAB scripts and translating neuroscience concepts into code. This work required deep understanding of neuroscience and statistical concepts.
- Analyzed and reviewed the effects neuronal pattern separations and encoding based on the vectorization of high-volume data.

## SKILLS

**Languages (Experience):**
C++ (Intermediate/Advanced, 2 years)
Python (Intermediate, 2 years)
Go (Intermediate, 4 months)
ES6 Javascript (Intermediate, 1 year)
Bash, HTML5, CSS, Typescript (Familiar)
**Tools/Frameworks**
ReactJS, NextJS, MySQL, Agile/Scrum development, Git, Systems Design

## RELEVANT COURSEWORK

**UNR**
Object Oriented Programming, Data Structures, Computer Organization, Digital Design, Design Patterns, Machine Learning, Programming Languages, Discrete Mathematics (CS), Graph Theory, Linear Alegbra, Calculus, Probability/Stats, Algorithms

## EDUCATION

Computer Science & Engineering B.S.
Math Minor (Major GPA: 3.5)

**University of Nevada, Reno**

📅 August 2019 – Present

Neuroscience B.S.

**University of Nevada, Reno**

📅 August 2016 – December 2019

## PROJECTS

**VM/Container Management**

- Containers allow students to have a UNIX environment with root privileges or allow access to on-campus Windows machines from home. Back-end was done through Apache Guacamole and LXC/LXD using VNC/RDP protocols. Front-end was written using Bootstrap, React, and TypeScript. Used by engineering students at UNR.

**Neural Encoding**

Publication Link

- First-ever project working with MATLAB and implementing new features and analyses based on the specific research need. Worked heavily with researchers and translated technical needs from one field to another

**Simple Journaling Web App**

GitHub Link

- Personal development project targeting fullstack development and project organization. Used Django, Python, and React JS. I plan to rewrite the back-end using GoLang.

**School Hackathon Twitter Dialect Analysis**

Attempted to train ML model using a tweet stream

- Uses NLP models along with a TCP/IP socket stream into Hadoop/Spark to find differences in English from different geographical locations.

## REFERENCES

**Zachary Newell**
Current Supervisor
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**Dr. Simon Pieraut**
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