

Johnson (JP) Pham

Address: 3803 Wellborn Rd, APT 913, Bryan, TX 77801

Phone: 806-443-6743 | **Email:** john5onpham79@gmail.com | **LinkedIn:** <https://www.linkedin.com/in/johnson-jp-pham/>

EDUCATION

Texas A&M University

College Station, Texas

Bachelor of Science in Computer Science, Minor in Statistics

Expected Graduation: 2024

- **Relevant Coursework:** Software Engineering, Data Structures and Algorithms, Design and Analysis of Algorithms, Problem-Solving Design, Cloud Computing, Data Science, Machine Learning, Computer Systems, Parallel Computing

WORK EXPERIENCE

USAA

Plano, Texas

Software Engineer Intern

May 2023 - August 2023

- Worked on an **Agile** team leveraging **Scrum methodology** to integrate Risk Management Systems for production use.
- Developed and maintained **Javascript API** on the ServiceNow platform to address the First Line of Defense (FLOD) Control Testing System against external and internal risks for the internal business product.
- Assisted in identifying and resolving software defects in **Javascript** and **Angular.js** widgets, reducing bug counts affecting over **10,000** users resulting in increased productivity and speedup load time of widgets.
- Implemented **Javascript API** and leveraged **MySQL** to identify and remove over **38,000** records reducing load time significantly and speeding up overall internal processes.

PROJECTS

Point-of-Sale Website and GUI | Javascript, HTML, CSS, EJS, Java, Express.js, PostgreSQL, OOP

- Developed on an **agile scrum** team to create a point-of-sale website for a restaurant, *Pom and Honey*, at TAMU's MSC.
- Implemented **HTML, CSS, Javascript**, and **EJS** to create a frontend multi-purpose website that allows employees to see trends, supplies, and customers to log in and place online orders with more than **10,000** items.
- Developed **REST** backend with **Express.js, Node.js**, and **PostgreSQL** and leveraged **Express.js** with **RESTful API** to implement Google Translate, Google OAuth, and Google Maps for ease of use for customers and employees.

Twitch Chat Interface Web Application | Java Spring, HTML, CSS, Javascript, Websocket, OOP

- Developed a customizable, draggable chat interface for Twitch using **Java** with the **Spring Boot** framework, leveraging the **Twitch4j** library for seamless **API** interaction.
- Established a **WebSocket** server to broadcast real-time chat messages from selected Twitch channels to all connected web clients.

Custom Neural Network Image Classifier | Python, Pytorch, Numpy, CNN, OOP

- Created a **Convolutional Neural Network** from scratch to classify the Fashion-MNIST dataset with **PyTorch**.
- Leveraged **Python** with **Pytorch** to build the custom model with **29,000** parameters resulting in a model with **95%** accuracy on the trained data and **93%** accuracy on the test data on 2D gray-scale clothes images.

Load Balancer Simulation | C++, OOP

- Created a Scalable Load Balancer in **C++** that simulated request jobs loaded onto a web server object.
- Simulation handles over **100,000** web servers and requests with simulated input and output IP addresses.

ICU Prediction Model | Python, Sci-kit Learn, Pandas, Numpy, OOP

- Developed a model to predict patients sent to ICU with a dataset of over **100,000** data points.
- Leveraged the Random-Forest Classifier model to split, train, and test data on ICU patients with an **85%** accuracy.

TECHNICAL SKILLS

Programming Languages: C/C++, Java, Python, R, PostgreSQL, MySQL, Javascript, HTML, CSS, Scheme, Racket

Framework: Express.js, Node.js, Java Spring, React.js, AWS S3, Java Swing, EJS, Pandas, NumPy, PyTorch, Jupyter, OOP

Tools: Git, Github, Jira, Agile, Linux, Neovim, Vim, ServiceNow, R-Studio, VScode, IntelliJ, Clion, Pycharm