

Patrick Chan

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EDUCATION

University of California, Davis

Davis, CA

Bachelor of Science in Computer Science, Minor in History

Sep. 2020 – June 2022

- GPA: 3.83
- Honors: Deans List

EXPERIENCE

Associate Software Engineer

July 2022 – Nov.2022

Nisum

Fremont, CA

- Team lead during the development of a full-stack web application using an Agile workflow to develop epics with incremental users stories and monitored the progress through Jira
- Developed REST APIs with Springboot and MySQL to store user data and make transactions between Databases while also testing with Postman
- Designed a UI for a marketplace using Angular and Angular Materials

PROJECTS

LStore Database | *Python*

Jan. 2022 – March 2022

- Developed from the ground up; a replication of an LStore database
- Implemented a mix of columnar data from a write-optimized form (OLTP) into a read-optimized form (OLAP)
- Applied a simple two-phase locking with no wait to implement multi-threading
- Documented performance, possible improvements, and possible negatives of implementation for important milestones

Sultan of Suggestion | *C#, Unity*

April 2022 – June 2022

- Created and deployed a top down rouge-lite through Unity
- Implemented factory and observer design patterns to resolve reoccurring problems
- Deployed an Agile workflow
- Collaborated and communicated with play testers to receive feedback and improve design and game feel

Credit Card Approval | *Python, Jupyter Notebook, Pandas, sklearn, seaborn,*

April 2022 – June 2022

- Parsed and cleaned a large data set with a simple python script
- Trained a logistic regression, XGBoost/gradient-boosted decision tree, Feed Forward Neural Network, and Support vector machine with RBF kernel and linear kernel
- Hyper parameter tuned supervised machine learning models

House Plant Recognition | *Python, Tensorflow*

December 2022 – Present

- Scrapped a plant database website for several thousand pictures of different genera of plants with a python script
- Manually/semi-automatically creating image annotations for object detection
- Testing several Tensorflow machine learning models on a subset of the scrapped data

TECHNICAL SKILLS

Languages: Java, Python, C/C++, SQL (MySQL), JavaScript, HTML/CSS, R, MATLAB

Frameworks: Spring, Angular, JUnit, Bootstrap

Developer Tools: Git, VS Code, Visual Studio, IntelliJ, Eclipse, Jira, Selenium, Cucumber, Postman, Jupyter notebook