

Kayla Bachler

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Education

Bachelor of Science: Computer Science & Software Engineering

GPA 3.7

University of Washington Bothell

Graduating June 2019

Coursework: Fundamentals of computing, Programming methodologies, Database systems, Machine learning, Analysis and design, Hardware and computer organization, Operating systems, Cloud computing, Data structures and algorithms, Mathematic Principles of Computing.



Technical Skills

Languages: C++, Java, HTML/CSS, PowerShell, Python, SQL, JavaScript, C#, Assembly Language

Software/Environments: VS Code, Vim, SQLite, Visual Studio, Jupyter Notebook, Git, PowerShell ISE, Cygwin, BlueJ, Matlab, IntelliJ



Projects

Movie Store

- Developed with **C++**. Built using Cygwin and Vim editor.
- Text-file input for store inventory, customers, and transactions that populates a movie store.
- Inheritance, Hash tables, Binary search trees, vectors, and classes within composition (has-a) used.

HP BIOS Update: Meltdown and Spectre

- Developed in **PowerShell**. Deployed as scheduled task in SCCM.
- Scripted install of BIOS update to entire district (600+ devices) for both PC and laptops.
- Local computer properties, conditional statements, and try-catch blocks were used in implementation.

Family Feud

- Developed in **Java** as an independent project; built using BlueJ (Java development environment).
- Text-based user input game modeled after the Family Feud game show. Designed format and parsed datasets in implementation.

Machine Learning: Classification of Landslide Triggers

- Developed with **Python**; used Jupyter Notebook and random forest classifier ensemble method from sklearn.
- Implemented Random Forest Classifier to predict the trigger of a landslide (i.e. what caused the landslide).
- Pre-processed dataset of global landslide triggers, split into training/test data, used SMOTE Oversampling technique to re-balance dataset, trained model, and post-processed to improve precision score.



Work Experience

Student Technology Consultant

Sept 2016 - Present

University of Washington Bothell

- Provide technology assistance to patrons via the Tech Helpdesk at the UWB Library
- Troubleshooting computer hardware/software/connectivity problems
- Review, maintain and create documentation for various tasks

ITS End User Support Student Engineer

Summer Intern 2016, 2017 & 2018

Snohomish County PUD (Public Utility District)

- Scripting various software install/uninstall and upgrades for district PCs using PowerShell & SCCM
- Scheduling and performing over 200 computer replacements with active users
- Replacing Physical Components of PC's (Video cards, Memory, Hard drives etc.)