Reiden **Chea**

1003 204th PL SW Lynnwood, WA, 98036

+1 425-773-1571 | reidec@cs.washington.edu | /thechincheachilla | /reiden-chea

Education

University of Washington *Seattle, Washington*

Pursuing B.S. in Computer Science, Data Science Option; GPA: 3.87 *Sept. 2019 - March. 2022 (Anticipated)*

- Relevant coursework: Machine Learning, Data Visualization, AI, Computational Biology, Computer Security, Technical Writing, Algorithm Design, Data Structures, Software Design, Probability and Statistics, Discrete Mathematics, Multi-variable Calculus, Differential Equations, Linear Algebra

Experience and Leadership

AT&T Technology Development Program *Bothell, WA*

Software Engineer Intern; ML Developer *Jun. 2021 - Sept. 2021*

- Collaborated with other interns to optimize an HBO Max user's experience from their non-video analytical data; developed a neural network trained on user UI data (mouse clicks, titles selected from carousels, etc.) to create an interface that evolves with individual user preferences.
- Implemented random forest classifier to assign rows of privacy information a categorical label. Achieved a consistent test set accuracy of >93% when trained on the small dataset of 210,800 inputs. Reported on other models and documented their shortcomings (SGD, ridge, SVC, etc.).
- Modularized the model to auto-select CSV file features and easily allow selection of features to omit, standardize, and vectorize. Allowed for the use of any classifier with the same methods as the random forest classifier.

UW Interactive Data Lab (IDL) *Seattle, WA*

Research Assistant *Jan. 2021 - Present*

- Developed an interactive GUI for TEA, a declarative programming language to help non-statistical analysis experts formulate hypotheses and statistically analyze their experimental data, with Bootstrap, Vue.js, axios, and Python/Flask.
- Researched approaches to developing new tools and programming languages for specific groups of people based on behavioral analysis, user goals, and user background.

AT&T Technology Development Program *Bothell, WA*

Software Engineer Intern; Web Developer *Jun. 2020 - Sept. 2020*

- Collaborated with other interns to address the needs of primary educators; developed the Pandemic Playground, an interactive virtual interface for students to develop their social skills and combat lapses in peer-to-peer interactions, with the MERN stack and SCRUM process.
- Developed a web app used by 600+ daily internal AT&T programmers to manage task records, action items, enhancement requests, and more; tracks $30m+ in yearly savings from automation improvements. Optimized program modularity, improving existing code to be more intuitive.
- Enhanced the app's GUI and API, implementing bug fixes (database connection, load-in, and submission errors), new features (data fields, validation, authorization), and new components (elements that request and display a user's reports and savings).

Associated Students of UW (ASUW) Student Senate *Seattle, WA*

Senator; Oversight Vice Chair; Oversight Chair *Oct. 2019 - Present*

- Led discussion and debates on student legislation, including the establishment of an international student task force, various COVID-19 bills, and more. Succeeded in tabling popular but rushed legislation for additional review, preventing unintended consequences from lack of oversight.
- Reformed the Oversight Committee to follow a structured plan of learning different parts of the senate rules and proceedings weekly.

Personal Projects

L.U.N.A.L.A - Logographic Uncluttered Natural Acquisition Language Achiever (2021) *Vue.js, Python, Flask, Bootstrap, Axios*

- Created and deployed a web app with a personalized set of Kanji flash cards to aid in my learning of Japanese. Accepts flashcard CSV files; presents cards in a grid to allow ease of studying. Hosted here: https://thechincheachilla.github.io/L.U.N.A.L.A/

G.O.T.C.H.A - Government Observer: Transparency, Credibility, and Honesty App (2020) *Vue.js, Python, Flask, Bootstrap, Axios*

- Created a web app for the 24-hour-long DubHacks Hackathon to parse summaries of Congress's 100 latest bills and contact information of legislators for users. Upon a user query, retrieves legislation or legislator data from a government provided XML file and displays information in a pop-up modal.

S.U.C.R.O.S.E - Surely Unsecured Candy Receiving Operational Silly Exploit (2020) *Python, RaspPi, Selenium, Inventor*

- Fabricated a Raspberry Pi integrated button to automatically order random candy from one of my online shopping accounts through a list of links via USB. Awaits the button to be armed and pressed, then headlessly logs in and places an order. Enclosed within a custom 3D printed housing.

Skills

Languages and Tools Java, Python, Pytorch, NumPy, SK-Learn, C/C++, C#, JavaScript, Vue.js, GIT, SQL, HTML, CSS, Bootstrap, Axios

Interpersonal Project Management, Public Speaking, Fundraising, Technical Writing, Research

Technologies Autodesk Inventor, Arduino IDE, Additive Manufacturing