Bailey Kau

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SUMMARY:

Software developer with extensive experience in the computational chemistry field. Strong understanding of Agile development process. Team-oriented leader adept at cooperating with others.

TECHNICAL SKILLS

Languages [Python, Javascript, SQL, Java 8, HTML5, CSS3, C] **Frameworks/Libraries [**jQuery, React, Express, Bootstrap, Angular, Node, Jinja, Spring, Apache Nutch**] Databases [**MySQL, MongoDB**] Version Control Systems [**Github, Git Bash**] APIs [**Youtube API, Google Maps API**]**

TECHNICAL PROJECTS

Sudoku Shinobi | *Sudoku-Solving Web Application built using Python, Jinja, MySQL , HTML, CSS*	2021

- Built a sudoku-solving algorithm using backtracking in Python and MySQL to provide intended experience
- Developed and linked models using MySQl to provide CRUD and display sudokus
- Used CSS and Bootstrap to create a more visually-appealing user interface

My Portfolio| *Interactive and Visual Portfolio of Projects built using HTML, CSS, JS, Bootstrap*	2021

- Created buttons with hover and click functionality using CSS and Bootstrap to make the website more visually appealing
- Wrote arrow functions for breakpoints in JS to allow the website to respond to user input

Student Store | *Student-Discount Focused Web Application built using Java, Spring, HTML, Bootstrap, Apache Nutch, Google Maps API*	2021

- Utilized Bootstrap and Java Server pages to create a unique user interface for my front-end
- Developed and employed a web scraper using APache Nutch to find the student discounts to display
- Linked models, controllers, services and repositories to create user login and registration

PROFESSIONAL EXPERIENCE

Intern | *UCI Furche Group*| Irvine, California	2018-2021

- Served as a co-author on two computational chemistry academic graduate research papers
- Created simulations and graphs of decoherence using the GreenPlanet cluster to aid academic research
- Helped build a genetic algorithm using GreenPlanet cluster to research improvements to pharmaceuticals

EDUCATION

Coding Dojo | *Full-Stack Developer Certificate* | Online
     • *Immersive Full-Stack Training Program in Python, Java and MERN*
     • *Received Triple Black-Belt (Perfect Scores) on Fullstack Exams*
     • *Developed leadership skills by working with other aspiring computer scientists*
	2021-2022

Harvard's CS50| *Full-Stack Developer Certificate* | Online
     • *Comprehensive Fundamentals of Software taught by Harvard Professor David Mulan*
     • *Earned certification through completing entire curriculum of recorded lectures*
     • *Extensively self-studied Python, CSS, HTML, JS and C, SQL with real-world problem sets*
	2021