Andy Chen

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EDUCATION

University of California, Berkeley **Expected Graduation: May 2024**
Bachelor's Degree: Computer Science & Data Science *GPA: 3.8/4.0*

Relevant Coursework: Data Structures (**Java**), Artificial Intelligence (**Python**), Machine Learning (**Python**), Mobile & Web App Development (**Android Studio, NodeJS, HTML, CSS)**, Intro to Data Science (**Python, SQL**), Structure & Interpretation of Computer Programs (**Python, SQL)**, Discrete Math & Probability Theory, Linear Algebra & Differential Equations, Technical Engineering Design (**CAD**)

TECHNICAL SKILLS

Languages: Java, Python, C++, HTML, CSS, SQL, Javascript, Julia, Android Studio, Regex
Libraries: Collections, Matplotlib, Numpy, Flask, PyMongo, OpenCV, Pandas, PyTesseract, Scikit-Learn, Tensorflow, Tkinter
Miscellaneous: WordPress, Git, UNIX/Linux, Docker, Computer Vision, Deep Learning, Excel, CAD

WORK EXPERIENCE

UC Berkeley Haas School of Business **Jul 2021 – Present**
Software Engineering Intern *Berkeley, CA*

- Developing website back-ends by writing data queries and populating content for business groups to advertise and showcase Haas events, increasing exposure to events by 30%
- Collaborating with 3 other interns to design efficient database queries, providing UI/UX feedback to improve accessibility and engagement, and reducing time to retrieve content by 2s
- Utilizing HTML, CSS, JavaScript, Adobe Creative Cloud (Premiere Pro, Photoshop)

Aspiring Scientists Summer Internship Program (ASSIP) **Jun 2020 – Nov 2020**
Summer Research Intern, Machine Learning Concentration *Fairfax, VA*

- Generated COVID-19 case prediction models utilizing deep neural networks with 91% accuracy
- Corresponded with a team of 6 to improve project goals and ideas to model and understand COVID-19 transmission
- Wrote 1000+ lines of Python to simulate COVID-19 community spread using Latent Dirichlet Allocation
- Coauthored published research paper, presented at international research workshop ACM SIGSPATIAL ARIC 2020, *Data-driven Mobility Models for COVID-19 Simulation*, 3 citations, 200+ downloads

PROJECTS

Sudoku Solver Photo Web App **Sep 2021 – Jan 2022**
Python, Tesseract OCR, OpenCV *Great Falls, VA*

- Implemented sudoku solver with back-end photo processor and solver, front-end visual web interface
- Parsed uploaded photos containing a Sudoku board using a computer vision backend to convert it into a Sudoku string
- Displays solved Sudoku board using constraint propagation algorithm in less than 5s, tested on NYTimes hard difficulty
- Coded and packaged my Python class, gained experience in full stack development

Swim Team Mobile App Capstone Project **Sep 2020 – April 2021**
Java, XML, SQL, Android Studio *Alexandria, VA*

- Created custom swim team management app for my swim coach to record times and practice sets
- Wrote code in Android Studio and Google Firebase to retrieve and visualize data in app

AWARDS & HONORS

- National Merit Scholarship Program, National Merit Finalist **2021**
- USA Coding Olympiad (USACO) Gold Division Competitor, Top 1000 U.S. High School Students **2020**
- Eagle Scout, Senior Patrol Leader, Troop 1018, Dranesville, VA **2020**
- 2x Google Code Jam Round 1 Qualifier **2019 – 2020**