AIDAN WOLK

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EDUCATION

Bachelor of Science in Computer Science and Engineering, degree expected June 2020
University of California, Los Angeles
GPA: **3.99**, *Deans Honor List*

EXPERIENCE

Full Stack Web Developer, Center for Heterogeneous Integration and Performance Scaling (CHIPS), UCLA
6/2017 – present

- Developed and designed entire frontend and backend of a public website/CMS for lab at UCLA using Node/Express and PostgreSQL
- Built an event creation and registration system, secure user authentication, and an email service
- Hosted site on Amazon AWS utilizing Elastic Beanstalk, S3, RDS, SES, and SNS

Machine Learning Researcher, CHIPS, UCLA 2/2017 - present

- Trained and designed neural networks for specialized neuromorphic computing architecture
- Achieved 90% pixel-wise accuracy identifying medical images
- Co-Author on "Deep Learning for Medical Image Segmentation – using the IBM TrueNorth Neurosynaptic System" in SPIE Medical Imaging

Software Engineering Intern, Scribe Labs, El Granada, CA 6/2016 - 1/2017

- Visualized and evaluated high-dimensional user data to cluster individuals based on running habits using K-means clustering
- Implemented Python API for Bluetooth LE communication between RunScribe devices and computers
- Optimized algorithm to analyze sensor data so that it more accurately interpreted footstep data by creating Bland-Altman plots that identified error

PROJECTS

Automatic Music Composer 2016, Python

- Composes diatonic musical pieces by utilizing a variety of composition methodologies
- Generates MIDI files describing the written music
- Synthesizes the generated music using a variety of wave functions to WAVE files

Dartboard (Team Project) 2017, Python, JavaScript, HTML, CSS

- Created trip itinerary planner website which optimized plans based on travel time and activity rating
- Integrated with Yelp and Bing APIs as data source for the site

COURSEWORK/SKILLS

- CS 31, 32, 33, 35L – Object orientated programming, data structures, algorithms, computer organization, software construction
- Languages – JavaScript, Python, C++, C, HTML, CSS, MATLAB
- Modern Web Development – HTML5, ES6+, CSS3

ACTIVITIES/AWARDS

- Second place at Hack on the Hill 2 for *What the Happening* – Event management web application
- Tutor for and member of Upsilon Pi Epsilon – Computer Science Honor Society
- Senior Developer at UCLA DevX, BruinMeet team – Dating website build in Node and React
- Top All-Freshman Team at LACodeSprint
- Top 30 at LA Hacks for *Dartboard*