Charles Chen
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WORK EXPERIENCE:

Boeing Commercial Airplanes   Everett, WA
Aerodynamics, Stability and Control Engineer   May '14 – Aug '14, Aug '15 – Sep '17
- Conducted aerodynamic flight test data analysis for the 737 MAX experimental aircraft
- Lead the adoption of git to maintain version control of a legacy analysis tool written in a C-like language
- Designed and developed Bash scripts to simplify git staging/committing for aero engineers unfamiliar with git
- Created Python and Bash scripts to automatically run simulations and plot data

SKILLS & RELEVANT COURSES

Software	:	Python, JavaScript, C++, C, Java, SQL, Node.js, Express, MATLAB, Git, Bash
Relevant Courses	:	Operating Systems, Databases, Data Structures, Web Development Assembly Language and Computer Architecture, Discrete Math, Algorithms (In Progress), Networks (In Progress), Software Engineering (In Progress)

TECHNICAL PROJECTS:

Campsite Checker   Sep '17 – Present
http://campsite-checker.com/
- Web app that searches for campsites with open reservations based on location and date range
- Utilizes geolocation and web scraping to find location and status of campsites
- Frontend: React, Backend: Python, Deployment: AWS ElasticBeanstalk and AWS S3

Realtime News Data Engineering   Nov '17 – Present
https://github.com/CCInCharge/realtime-news
- Data ingestion from news API and live Twitter stream, using Kafka
- Kafka producer for data written in Java and Python

Chat Program   Oct '17
- Python chat server and C chat client that allows two users to chat
- Uses threads to allow for non-blocking IO for sending and receiving messages
- Implements TCP socket programming to communicate between server and client

Corporate Employee Viewer   Aug '17
https://github.com/CCInCharge/OSU-CS-340/tree/master/Project
- CRUD web app which allows users to add employees, managers, budgets, and projects
- Developed schema and implemented MySQL backend database
- Created frontend with HTML/CSS/JavaScript with handlebars templates, allowing user to modify entities
- Implemented backend operations with Node.js and Express

Fantasy Combat Game   Feb '17 – Mar '17
https://github.com/CCInCharge/OSU-CS-162/tree/master/Project4
- Text-based C++ game which allows for combat between characters with various attributes and skills
- Created functions to implement a menu system that validates user input
- Implemented OOP concepts to create interactions between characters

EDUCATION:

Oregon State University   Sep '16 – Dec '18 (Expected)
Bachelor of Science, Computer Science
  Cumulative Undergraduate GPA: 4.00

University of Southern California   Sep '10 – May '15
Master and Bachelor of Science, Aerospace Engineering
  Cumulative Graduate GPA: 3.47
  Cumulative Undergraduate GPA: 3.72