

CHANNING PEAR

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EDUCATION

2014-2018	University of Texas at Austin, B.S. Computer Science, B.B.A. Finance Turing Scholar, Computer Science Honors Program (3.69 GPA)	Austin, TX
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WORK EXPERIENCE

Summer 2016	Google, Software Engineering Intern Designed and implemented high-performance open-source Java distributed tracing API for the Google Cloud Platform <ul style="list-style-type: none">- Over 80% of Google's production services use the system, Census, to track RPC latency and for debugging- Google's next-generation distributed messaging framework, gRPC, will be Census-enabled in the future- Simplified internal codebase by wrapping legacy code with the new API's- Developed an entirely new, native implementation from the ground up for open-source release- Heavily contributed to the design of distributed tracing API's in other languages (Go, C++)	Mountain View, CA
Summer 2015	Bloomberg LP, Software Engineering Intern Developed premium financial analytics software and visualizations for a \$100M target market using React and D3 <ul style="list-style-type: none">- Designed and implemented custom visualizations to portray complex financial data- Connected front- and back-end through HTTP endpoints and restructured 30,000 line front-end codebase- Implemented backend pipeline to streamline the process of financial engineers validating submitted data	New York City, NY
Summer 2014	Beecher Investors, Software Developer Implemented real-time financial data grabber with excel integration using Yahoo's YQL and the Google Finance API <ul style="list-style-type: none">- Periodically queries yahoo and google finance for the most recent stock information- Caches the data in excel and groups requests so that requests aren't needlessly sent to the servers- Stores retrieved information in a spreadsheet to hook into later to get accurate historical pricing info	Stamford, CT

SELECTED PROJECTS

ML Scheduler	Implemented multiple types of process schedulers, including FIFO, LIFO, SJF, SRT, and a custom machine learning algorithm that uses I/O time, CPU time, and various other metrics to predict the optimal time to switch processes
Swim Scope	Web app that scrapes an online database for the times of a specified group of swimmers, caches the results locally, and ranks the individuals in each of their events. Developed using Python, Selenium, Flask, and MongoDB
Web Crawler	Indexes and searches a subset of the web. Supports compound queries and efficient phrase searching
Genetic Tetris	Graphical Tetris game with an AI developed and optimized through a genetic algorithm
Web Dev	Created over 10 websites for businesses, non-profits, educational groups, and teachers
Other Projects	Image Filters, Markov Chains, Graphical Chess, Single-Cycle CPU, malloc and free, pre-emptive threading, automated software deployment system, mouse tracker chrome extension

PROGRAMMING COMPETITIONS

Spring 2016	Machine Learning Competition, USAA DataHack @ UT Austin (Honorable Mention) Developed a model that predicts insurance holder enlistment status with 96% accuracy (competed with grad students)
Summer 2015	Intern Hackathon @ Bloomberg (1st Place) Developed a 3D capture-the-flag game, along with a promotional video, on a team of three using Unity
Spring 2015	Bloomberg Coding Competition @ UT Austin (2nd Place) Developed algorithmic stock trading software that sells/buys based on volatility, liquidity, and other calculated metrics

SKILLS AND TECHNOLOGY

Proficient	Java, Python, C++, Git, Vim, LaTeX
Exposure	React, JavaScript, HTML5, CSS3, C, MySQL, MongoDB, Objective C, Bash

RELEVANT COURSEWORK

CS	Data Structures*, Discrete Math*, Computer Architecture*, Operating Systems*, Algorithms*
Math	Statistical Modeling*, Vector Calculus*, Differential Equations, Linear Algebra

* denotes honors

EXTRA-CURRICULARS

Youtube	Grew "PearSquirrel" youtube channel to 4,000,000+ views & 10,000+ subscribers through Minecraft inventions
Trumpet	Board member of 400-person band, 1st Chair Trumpet/Section Leader (Jazz and Concert Band) since 10th grade