

Shuusei Yoshida

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Experience

Cowelco Steel Contractors | Intern

July 2016 – August 2016 | Long Beach

- Observed company workflow and shadowed under many positions including accountant and architect.
- Assisted in organizing information and setting up digital tools for improving data management.

Projects

Back Posture Correction Device | IEEE Quarterly Project

- A device which monitors a user's back posture in relation to their calibrated ideal posture via app.
- Developed using an Arduino, Bluetooth technology, Android App Development, Inertial Measurement Unit (IMU), and DSP filters for extracting relevant data from the IMUs.

Scriptor | UCSD CSE 110

- Voted as the best project of the quarter among 29 teams.
- A website that returns specific podcasts time stamps and transcripts based on keywords using the Google Speech-to-Text API.
- Uses a Python script to scrape the UCSD podcast website for podcast data to use for the website.

Bitcoin Hashing | UCSD ECE 111

- Implemented simple bitcoin hashing using the SHA-256 algorithm in Systemverilog.
- Optimized for latency, throughput, area * latency.

Superscalar In-order CPU Design | UCSD CSE 148

- Achieved an average 1.44 speedup over the baseline design.
- Implemented a superscalar in-order pipeline CPU with branch prediction, hardware prefetching, and value prediction in Systemverilog.

Education

University of California, San Diego

B.S. Computer Engineering

Graduated June 2021

Major GPA: 3.389

Skills

Tools

Intel Quartus Prime | ModelSim | OrCAD
PSpice | VSCode | Jupyter Notebook |
MATLAB

Programming Languages

Java | C | C++ | Python | HTML | VHDL |
Verilog | Systemverilog | x86 Assembly

Software

Algorithm Analysis and Design
Computer Operating System
Fundamentals
Computer Architecture
Multi-threaded Programming

Hardware

Processor Architecture Design
Optimization of RTL Designs
VLSI Design Fundamentals
Linear Systems Fundamentals
Analog Circuit Design
Signal Processing

Languages

English | Japanese