Chaojie Wang

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Education

Stony Brook University	Bachelor of Engineering in Computer Engineering Expected Graduation Date: May 2017 Dean's List 2013, 2014 Department GPA: 3.8
EE courses	Embedded Microprocessor Systems Design, Deterministic Digital Design using VHDL Deterministic Signals and Systems, Random Signals and Systems Stochastic Systems(graduate course), Computer Architecture
CS courses	Computer Science III, Intro to Data Structure & algorithm, Operating System
Current courses	Advanced Systems Programming in Unix/C, Mobile Cloud Computing

Experience

Jun - Aug 2015 — Undergraduate Researcher at Stony Brook

Mentor: Prof. Petar M. Djurić

- Conducted research on machine learning algorithms for predicting fetal health based on FHR&UP
- Read journal papers related to machine learning
- Performed data cleaning and feature extraction
- Implemented algorithms based on Naive Bayes and First-order Markov Chain generative model
- Performed analysis on the testing result of algorithms
- Presented a poster by the end of the summer
- The research was funded by PSEG

Jun - Aug 2014 — Engineering Intern

Company: Advanced Cleanup Technologies

- Wrote a web scraping software to obtain useful information from government websites.
- Implemented a telemetry system to monitor machinery on the field
- Implemented a feedback system to optimize cleaning process.

Skills

Skills	Embedded System Programming, Kernel Programming, Web Programming Machine Learning, Data Analysis, Monte Carlo Simulation
Computer Languages	C/C++, Julia, Python, Java, Javascript, Matlab, Haskell, Assembly, VHDL
Software Tools	Emacs, Git, GDB, Bash shell

Project

Oct - Dec 2015 — Pipeline Multimedia

- A pipeline processor for multimedia data using VHDL
- Wrote code according to design specifications
- Used a script language to generate test cases automatically

Jun - Oct 2015 — Quadcopter

- Made quadcopter from scratch with a team of four students
- Mostly focused on implementing state estimation and control using C
- Used STM32 MCU Nucleo and

Feb - May 2014 — Books Exchange Website

- Designed and implemented the layout of the website using Bootstrap and JQuery
- Coded backend with Nodejs and MongoDB
- Deployed on Heroku

Scholarships

Sept. 2013 — Stony Brook University Presidential Scholarship

Sept. 2013 — George C. Warner Scholarship