Hao Le (How)

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EDUCATION

UC Berkeley
B.A. Computer Science
Expected Dec 2018

RELEVANT COURSEWORK

- Structure and Interpretation of Programs
- Data Structures and Algorithms
- Multivariable Calculus
- User Interface Design and Development
- Algorithms and Intractable Problems
- Intro to Artificial Intelligence
- Linear Algebra and Differential Equations
- Machine Architecture
- Discrete Math and Probability
- OS and Systems Programming

EXPERIENCE

Software Engineering Intern *(PING)* **–** Berkeley CA Jun 2017 – Aug 2017

- Research, Design, and Implement scalable web application for tracking emails and calendar events
- Set up Exchange development server on Azure
- Utilized Node, MongoDB, Express, CSS, and gitflow workflow
- Sole responsibility, scalable clean code focus, and documentation of project

Lab Assistant and Computer Science Mentors *(CS61B)* Aug 2016 – Jun 2017

- Teach Berkeley undergrads and assist in coding assignments
- Tutor groups of 4-5 students

PROJECTS

Alexa Skill Tone Analyzer *(Python, AWS, DynamoDB)*

- Utilized AWS (Lambda services and Dynanmo DB) to create a journaling Alexa App
- Integrated IBM Tone Analyzer API

Recipe Assistant *(HTML, jQuery, AWS, DynamoDB)*

- Used HTTP, HTML, Bootstrap, and jQuery to build front end web app
- Displayed data from Dynamo DB hosted on Amazon Lambda server

Facebook Time Chrome Extension *(JavaScript, Jquery, HTML)*

- Kept track of time spent on facebook and specific pages
- Utilized bootstrap to build extension UI and chrome storage to store data

Ping Exchange Integration *(Node, ASP.NET, TypeScript, HTML, MongoDB, Express)*

- Ported project from ASP.NET to NodeJS
- Utilized APIs to communicate between multiple servers

Bearmaps *(Java)*

- Maps Web application: implemented routing and location data with A* search algorithm

Parallelism *(Python)*

- Utilized Spark MapReduce parallelism to increase JPEG compression speed by 5x
- Utilized OpenMP and intrinsic parallelism to increase Matrix Multiply speed by 5x

Website *(html, CSS, JavaScript, jQuery, bulma)*

- Personal website with focus on responsive design

SKILLS

- Proficient: Python, Java, C, C#, TypeScript, Git
- Familiar: JavaScript, HTML, CSS, JSON, Node, Figma, Express, MongoDB, jQuery