Enkhtushig Namkhai

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W*ebsite*: http://enkhtushignamkhai.github.io

EDUCATION

University of California, Berkeley   **fall '13 - spring '17 (Graduated, class of 2017)**
B.A. in Computer Science
Technical Course Highlights:

CS61A - SICP	(spring 14)	CS170 - Algorithms	(spring 16)
CS61B - Data Structures	(fall 14)	CS188 - AI	(spring 16)
Math 54 - Linear Algebra	(fall 14)	CS160 - UI Design	(fall 16)
CS61C - Computer Architecture	(spring 15)	CS161 - Security	(fall 16)
CS70 - Discrete Math & Probability	(summer 15)	CS186 - Databases	(spring 17)
CS162 - OS	(fall 15)		

SKILLS

Programming Languages (Proficient)*:* Python, Java, C
Programming (Familiar): Swift, Html/CSS/Javascript, SQL, Scheme
IDE: Eclipse, InteliJ, Android Studio, Xcode
OS: Mac OS X, Windows 7, UNIX
Design: Photoshop, InDesign, Illustrator, Invision, Figma, Maya
Prototyping: Laser Cutting and 3D printing
Spoken Languages: Fluent in English and Mongolian
Other: Git, Object Oriented Programming

PROJECTS

(*For my self started projects, please go to my website to find out more about them*)

Offspring (UI Design Class):
• A mobile companion app and a dedicated, durable low-cost watch device for children that allows parents, guardians, and caretakers to easily track and communicate with their children. Did user research to gather data and went through the design process to improve our design implementation. More details on the process can be found on website.

Implementing a Database (Database Class):
• Managed how records are stored on pages and how we can access them. Each table has a set of fixed length records that the user can add or delete. Each record is stored on a page that has free space, we were able to tell if a certain slot of the page was free by using a bitmap. Using the found free slot, we index into the page and write the new Record into the empty page.
• Implemented BPlusTree Insertion/Iterator. A BPlusTree will split whenever a node is full, so created a recursive splitting algorithm to implement this. Used the nodes to iterate through the elements of the tree.
• Implemented Join Operator Iterators for Page Nested Loop Join, Block Nested Loop Join, Grace Hash Join, and Sort Merge Join to join two sets of tables in the database.

Secure File Storage (Security Class):
• Designed a secure file storage in an untrusted server and allowed sharing, uploading, downloading and revoking these files with others. We had a data structures to store the files that we uploaded, and another to keep track of who we shared each file with, and finally a centralized place where everyone that has access to the file can go get the keys to decrypt the files. How can we store files in an untrusted server? Was the issue we wanted to solve.

EXPERIENCE

Lab Assistant   **UC Berkeley   June 2014 - August 2014**
The Structure and Interpretation of Computer Programs Lab Assistant (CS61A)
- Helped, guided, and tutored students during lab and answered questions regarding homework, projects and lab exercises.
- Was part of the Lab Review committee, where we collaborated with Teacher Assistants and other interns locating and fixing bugs in the lab assignments and identifying the difficulties that the students might have.

ASUC Intern   **UC Berkeley   August 2013 - May 2014**
Associated Students of the University of California Intern
- Worked under the Senate Office of the ASUC. Helped plan an event called IDEATE, where students were able to showcase their innovations. The winners were rewarded.

ORGANIZATIONS

UC Berkeley Computer Science Scholars…………………………………………January 2015 – Present
UC Berkeley Society of Women Engineers……………………….………………January 2014 - Present
Berkeley Innovation (BI)………………………………………………………….January - May 2016