

MICHAEL DENG

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EDUCATION

University of California, Berkeley | 2013-2017
B.S. Electrical Engineering and Computer Science

GPA: 3.5 SAT: 2350 (800M, 790R, 760W)

Western Canada High School, Calgary, AB, Canada | 2010-2013
International Baccalaureate Diploma Programme

Coursework: Computer Programs, Data Structures, Machine Structures, Linear Algebra, Discrete Mathematics

PROJECTS

Java Projects | Berkeley, CA | Sept 2013 – Present

- Designed two puzzle games in Java, Connecting Dots and Sliding Blocks, making extensive use of data structures
- Created a Java File Compression and Zipping program based on principles of Huffman Encoding and Decoding

Python Projects | Berkeley, CA | Sept 2013 – Present

- Developed a Python interpreter for the Scheme programming language using a REPL programming environment
- Programmed two puzzle games in Python, a tower defense game resembling Plants vs. Zombies and a dice game
- Built a puzzle solver in Python using MapReduce techniques, Apache Spark, and Amazon Elastic Compute Cloud

Other Projects and Web Development | Berkeley, CA | June 2014 – Present

- Designed the frontend and backend of a Ruby on Rails app for a professional fraternity; deployed at calakpsi.com
- Built a C and MIPS computer vision software that creates, compresses and decompresses depth maps from a pair of offset images, and uses parallelization, Intel SIMD Intrinsics and OpenMP optimization to run very efficiently
- Constructed a personal website using HTML, CSS, JavaScript, jQuery and Jekyll; deployed at mikedeng.github.io

Undergraduate Research | Berkeley, CA | Aug 2014 – Present

- Wrote web scrapers in Python that crawls web pages to gather data about different companies in many industries

University of Calgary Research Project: The EcoWalker | Calgary, AB, Canada | Jan 2011 – Aug 2012

- Engineered a phone charger powered by the motion of a person walking; received a \$5000 clean technology grant

LEADERSHIP

Extracurriculars | Berkeley, CA and Calgary, AB, Canada | Sept 2011 – Present

- Hosted a 300-people Cloud technology panel including companies such as Salesforce, DigitalOcean, and AdRoll
- Co-founded my high school's Science Club; directed it to become a successful club of over a hundred members
- Earned the Duke of Edinburgh's Gold Award and the Chief Scout Award as a 8-year member of Scouts Canada

Athletics | Berkeley, CA and Calgary, AB, Canada | Sept 2007 - Present

- Competed on Cal Men's Volleyball Team; was Varsity Captain, MVP, and Canadian Open National Champion
- Founded BASICS Volleyball Club and coached a 15U Boys' volleyball team to win three regional tournaments
- Competed on my high school's Varsity Track & Field and Badminton Teams, winning two City Championships

SKILLS AND INTERESTS

Skills: Java, Python, HTML, CSS, JavaScript, Ruby on Rails, Proficient in Mandarin Chinese

Interests: Backpacking and canoeing in the Rocky Mountains, automobiles, Game of Thrones, violin (10 years)