

Manmeet Singh

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EDUCATION

Bachelor of Arts, Computer Science
Bachelor of Science, Neuroscience
University of California, Santa Cruz, June 2016
Monta Vista High School, Cupertino, CA

EXPERIENCE

8Tracks, San Francisco, CA Summer 2015
Ruby on Rails Intern

- Implemented partial object caching to reduce search result average from 5 seconds to 0.5 seconds.
- Built custom social media dashboards and re-designed other aspects of the home page for an elegant experience using jQuery/AJAX, HTML5 and CSS.
- Integrated Eventful API with Full Calendar to notify a user of events within a certain radius and desired dates.

EPC, Oakes College, UC Santa Cruz 2013-14
Database Coordinator

- Automated data entry by scanning data into pdf format and reading tables using xpdf, saving hundreds of dollars monthly in manual labor costs.
- Optimized scanning translation fidelity by implementing cross-referencing of the scanned .csv tables with those in the database.
- Aided the head coordinator in standardizing the entire process for greater automation and lower overhead costs.

Long Marine Lab, Santa Cruz, CA 2012-13
Neuroscience Research Intern

- Modeled brain tissues in marine mammals resulting from exposure to various environmental toxins, such as mercury, lead, and arsenic.
- Aided as an assistant in necropsy, study of in vivo tissue and fixation of tissue samples.

COMPUTER SKILLS

Java, C/C++, Python, Linux, Photoshop
Familiar with: MySQL, Ruby, JavaScript
Biology specific: Illumina and RNA Seq data assembly and analysis
<https://github.com/manmeet3>
<https://SinghManmeet.com>

PROJECTS

1. *OC compiler*: Compiles a C-like (subset) language. Done as a quarter long class project. Total 5 stages: Preprocessor, Lexical Analyzer, LALR(1) Parser, Symbol and Type Checker and Intermediate Lang. Generator
2. *FAT File System*: A FUSE based user-space mounted file system written in C. The 1KB block based FAT disk file is saved under the host OS. Functions are called by the FUSE API to perform operations on the disk file.
3. *Spring REST API*: A virtual library based REST service. Uses Hibernate as the ORM tool and PostgreSQL at the back end. Users can checkout, return books or look at the catalogue. - Others on Github

EXTRA-CURRICULAR ACTIVITIES

Vice President, Sigma Lambda Beta Intl. Fraternity 2013-14
Intramural basketball 2012-14