

Parul Singh

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EDUCATION & AWARDS

University of California, Berkeley

Expected Graduation Date: May 2016

B.S. Electrical Engineering and Computer Science | **Top 1% of matriculating class**

Regents' and Chancellor's Scholar – Regents' Scholarship Recipient, Alumni Committee Member

August '12 - present

- The Regents' Scholarship is the most prestigious scholarship awarded by UC Berkeley to entering undergraduates.

Leadership Award Recipient -- Cal Alumni Association

August '12 - present

- The Leadership Award is a merit-based scholarship that recognizes Cal students who demonstrate innovative, motivational leadership impacting their academic, work, or community environments.

WORK EXPERIENCE

Google – Software Engineer Intern, Apps Search Quality

May '15 – Aug. '15

- Improved private content search across apps including Google Drive, Gmail, and Inbox
- Implemented library that mines acronyms from text to allow users to search for documents or emails with acronyms
- Created relevance metric to determine quality of acronyms extracted based on features of surrounding text
- Acronym mining improved retrieval of correct documents, and relevance metric improved accuracy of ranked results

Microsoft – Software Engineer Intern, System Center Configuration Manager/Microsoft Intune

May '14 – Aug. '14

- Launched web app for SCCM & Intune developers to manage code check-ins to a codebase
- App provides daily analytics on throughput of jobs, success/failure rates, and causes of failure
- Worked directly with developers to gather requirements and prioritize feature development
- Used the ASP.NET web application framework to build a single page application using the MVVM architecture
- Gained web development experience and learned data-binding with Knockout.js to create a JavaScript UI

Juniper Networks – Software Engineer Intern, Routing Protocol Development

May '13 – August '13

- Created a client and server application in Java to illustrate the Path Computation Element (PCE) Routing Protocol
- Client/Server application added to the OpenDaylight Project, an open source SDN controller

TEACHING & LEADERSHIP

Teaching Assistant for Professor Scott Shenker, CS 168: Internet Architecture and Protocols

Sept. '15 – Dec. '15

- Designing and teaching discussion sections, holding office hours, writing and grading homework, projects, and exams

CS KickStart – President

Sept. '12 - present

- Organizing annual program to introduce incoming undergraduate women to the field of computer science with the goal of increasing the participation of females in UC Berkeley's computer science major
- Leading team of 20 female undergraduates in securing faculty speakers, advertising, and reviewing applicants

PERSONAL PROJECTS

Athena - First Place at Microsoft Intern Women Who Hack-athon, athena-app.azurewebsites.net

June '14

- Launched a web application for computer science students to practice coding interview questions and get real feedback from professional computer scientists in the industry
- Application enables enrollment of students and mentors, provides social collaboration and networking opportunities
- Learned the ASP.NET web application framework with the model-view-controller (MVC) architecture

ScheduleMash Android Application

July '14 – present

- Developing an application that merges multiple users' schedules to recommend an optimal time to meet
- Working with Facebook Graph API for login/user information and using Parse for the backend

RELEVANT SKILLS & COURSEWORK

2-3 years of experience with: Java, Python, C#, HTML, CSS, SQL, Eclipse, Visual Studio, Web Development

1-2 years of experience with: JavaScript, C, C++, C#, Android Development, Scala, Hadoop, Information Retrieval

CS194-16 Data Science (Fall '15) | **EE20** Signals & Systems (Fall '15) | **CS188** Artificial Intelligence | **CS186** Databases |

CS162 Operating Systems | **CS168** Networking | **CS170** Algorithms | **CS61B** Data Structures | **CS61C** Machine Structures |

MATH54 Discrete Math & Probability Theory | **EE40** Microelectronic Circuits | **CS61A** Structure of Computer Programs