AKSHATH SIVAPRASAD

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SUMMARY

- Independent and quick learner, self-driven, dedicated, team player
- Well-versed in Java, Python, C#, SQL, Scheme, MIPS and background knowledge in Assembly, JavaScript, PHP, HTML; willing to learn anything necessary to get the job done
- Enjoy solving programming challenges (hackathons, USACO Platinum division)

EDUCATION

- Sophomore with senior standing at UC Berkeley, majoring in Computer Science and Electrical Engineering
- Related coursework:

Machine Structures (CS61C)	Data Structures and Advanced Programming (CS61B)
Structure and Interpretation of Programs (CS61A)	Computer Security (CS161)
Introduction to Database Systems (CS186)	Efficient Algorithms and Intractable Problems (CS170)
Discrete Mathematics for Computer Science (CS70)	Foundations of Data Science (CS C8)
Designing Information Devices and Systems (EE16A)	Physics for Scientists and Engineers (PHYS7A/7B)
Multivariable Calculus (MATH53)	Linear Algebra and Differential Equations (MATH54)

- Graduated from Interlake High School (IHS) in gifted PRISM program (most rigorous in WA state), receiving IB diploma in 11th grade; GPA: 4.61, SAT: 2390

EXPERIENCE

Science Infinity | Founder | http://scienceinfinity.org/ — September 2011 – Present

Science Infinity is a student-run non-profit organization that aspires to raise the bar in STEM education and expand students' academic horizons, with over 100 students and 20 volunteers.

Healthcheck v2 | Intern — June 2015 - Present

Apptio under Supin Ko

- Implemented complete revamp of health check system, transitioning from an external system to one centered around Splunk in order to provide comprehensive forensic data in order to cut downtime drastically
- HCv2 will be shipped to prod after trial run next quarter

MetaCAPTCHA | Intern | http://metacaptcha.com/ — May 2013 - July 2013

Portland State University under Dr. Wu-chang Feng

- Developed an anti-spam application, MetaCAPTCHA, which integrates CAPTCHAs and proof-of-work (PoW) puzzles with a global reputation system in order to provide users with a stronger defense against adversaries
- PHP, HTML, JavaScript, Linux-based systems

BSD Capital Construction | Intern — September 2012 – March 2013

Bellevue School District (BSD) under Kyle McLeod

- Construction and project management of the BSD Transportation Facility
- Participated in design, permitting, and bidding processes for various construction sites

Projects

Gitlet: A basic version of a popular version control system, Git, implemented from scratch in Java. Employs SHA-256 hashing and GZip compression, and includes features such as merge, interactive rebase, remote push/pull etc.

Scheme Interpreter: Interpreter, written in Python, for basic Scheme commands

Autocomplete: Coded in Java, used a ternary search tree + priority queue to provide autocomplete functionality.

MIPS Datapath: Using Logisim, built MIPS datapath and control (i.e. ALU, CPU, regfile) with pipelining

Twitter Trends: Developed a visualization of Twitter data, based on keywords and hashtags, to derive sentiments of geographical regions in regards to user-inputted queries. Coded in Python.