

Jai Dhyani

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EDUCATION

UNIVERSITY OF CHICAGO

COMPUTER SCIENCE

Undergraduate | 2010

Concentration: Artificial Intelligence

SIDE PROJECTS

POWERSHAME (INACTIVE)

Full-Stack Web Site, API, and Desktop Client

Built social application to produce and share time-lapse videos of desktop

github: jaibot/powershame-site

github: jaibot/powershame-client

github: jaibot/powershame-renderer

UPDATEYOURPASSWORDS

Built single-page tool to update passwords and two-Factor authentication
jaibot.github.io/updateyourpasswords

TIMELOCK (INACTIVE)

Built webapp to generate RSA keypairs and schedule publication of the private key

github: jaibot/timelock

SKILLS

PROGRAMMING

Python: Pandas, Numpy, Sklearn, NLTK, Flask, Pytest

R • Bash • SQL • \LaTeX • git

Familiar: C • C++ • Java • Javascript • Ruby • Clojure

SYSTEMS

Linux (Debian and Redhat families) • Relational Databases (PostgreSQL, MySQL) • NoSQL (Mongo) • Networking (L2, L3) • AWS • Docker

AWARDS

GOOGLE CODE JAM

2010

Top 3000 Worldwide

PUTNAM EXAM

2006

Top Putnam Exam score at McDaniel College

EXPERIENCE

AMAZON | AWS NETWORKING

2014 - 2015: Systems Engineer II

- Automated AWS's network testing pipeline, drastically reducing test time, increasing reliability and replication, and ensuring that AWS and amazon.com continue to scale with demand.
- Mentored coworkers in Python, pytest, and git to enable rapid conversion of manual to automated tests
- Built custom tools to automate management of niche hardware, including industrial traffic generators, L1 switches, and bleeding-edge network hardware not yet available to the public
- Developed AWS Test Region to accurately reflect actual AWS Regions
- Increased testing capacity via novel Docker deployment, enabling hardware tests to run concurrently, in isolation, on the same hardware

DEMOCRATIC NATIONAL COMMITTEE

2011 - 2013 : Systems Engineer | 2013 : Lead Systems Engineer

- Built custom scraping tool to intelligently capture nightly snapshots of web pages and compare differences across time; Used by researchers, debate prep, OFA CTO Harper Reed
- Built, deployed, and proactively responded to thousands of internal metrics, ensuring that voter databases, get-out-the-vote infrastructure, web pages, and more remained available under rapidly growing traffic, constant deployments, and increasingly frequent attacks.
- Revamped backup solution: increased fidelity, decreased execution time 70% and storage required 60%.
- Performed empirical cost-benefit analysis between different deployment strategies of voter database (NARWAL), saving hundreds of thousands of dollars.
- Deployed and managed Vertica cluster powering the NARWAL voter database.
- Collaborated with OFA on one of the then-most-complex AWS deployments ever; visual summary at jaibot.com/awsofa

RESEARCH

SIGNAL DATA SCIENCE PROJECT (FORTHCOMING) | 2016

Analyzed every trade ever made on the Intrade Prediction Market to identify inefficiencies and systemic miscalibration.

COMPUTATIONAL LINGUISTICS REU @ UCHICAGO | 2007

Investigated Automatic Tone Correction in Tonal Languages

DIMACS REU @ RUTGERS | 2006

Investigated Applications of SVMs in Seizure Prediction

ACTIVITIES

- 2007-2010 UChicago ACM Treasurer: Revived then-defunct ACM at UChicago; Organized Meetups, Lectures, Hackathons, and Programming Competitions
- 2014-Present Seattle Effective Altruism: Helped grow from dozens to hundreds of members; Gave and Organized Talks, Meetups. Led largest annual community event in 2014 and 2015.