Andrew Y. Yao

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A dedicated, resourceful problem-solver and team player. Looking to build software that is delightful to use.

TECHNICAL SKILLS

- JavaScript, TypeScript, React, Vue, Less/CSS, D3, Design Systems, Webpack, Node.js, Python, Golang, Java, C, C++, SQL, Hadoop, Docker, OpenShift, Kubernetes.

EXPERIENCE

Principal Software Engineer — Cloudera, Palo Alto, CA, *1/2011 - Present*

- Early member/Tech Lead of the Cloudera Manager Product. It is a management system used by 98% of Cloudera's customers (premerger) to manage the Cloudera platform. Include installation/upgrade workflows, cloud deployment, encryption, security, configuration management, quota management, paywall access, monitoring, alerting, chart building, timeseries, heatmaps, dashboards, reports, log search, resource management, etc.

- Founding engineer of the CDP Private Cloud product, a Kubernetes based hybrid data platform with cloud-native, self-service analytic experiences bringing the speed, scale, and economics of the cloud.

- Top committer with 8K+ commits, 2M+ LOC (Line of Code) added and 3M+ LOC removed across multiple projects.

- The Recipient of the 'One Cloudera' Award in 2018. [1]

- Won hackathon two times and one time people's choice award.

- Drove to improve the upgrade experience. Analyzed the customer journey and coordinated various cross department efforts, proposed and implemented various solutions that helped with reducing customer confusion and support cost.

- Built a design system that is used across all six Cloudera products.

- Built a MobX + React Hooks + components like system for our non-React based codebase that greatly enhanced code maintainability and reduced development time.

- Promoted best practices for internationalization, localization, accessibility, usage analytics and end-to-end automation.

- Mentored junior co-workers.

Principal Member of Technical Staff — Oracle USA, Redwood Shores, CA, *6/2004 - 12/2010*

- Tech Lead in Enterprise Manager Monitoring and Oracle Support portal.

- One of the projects was highlighted in Oracle Open World 2009, CEO Larry Ellison's keynote.

- Modularized 300K code into 22 libraries; Reduced compilation time by 6 fold.

- Re-architected code into dynamically loadable modules. Reduced initial payload by 40%.

- Implemented various backend web services (caching, proxies) and monitoring tools.

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[1] This award is for those who puts Cloudera first, always helping teammates, thinking cross-functionally, and doing what is right for the company as a whole).

Associate —   Goldman Sachs Inc, New York, NY, *6/2001 - 8/2003*

- Consistently ranked in the top quartile in the 360° Annual Review System.

- Implemented reusable components and Excel-based financial models and risk analysis models.

Intern Research Engineer —   Canon Information Systems Research, Australia, *12/1998 - 2/2000*

- Researched various image demodulation algorithms using Fourier Transform.

EDUCATION

M.S., Computer Science, Full Tuition Scholarship, GPA 3.9 — Cornell University, Ithaca, NY, *2004*

- Thesis: A data management system that searches heterogeneous data source using XQuery.

- Course Work: Database Implementation, Graphics, Distributed Systems, Networks, Scientific Computing

B.S., Computer Engineering, GPA 3.9 —   University of New South Wales, Australia, *2000*

- Rank: $2^{nd}/111$ students, Thesis Scholarship, Canon Academic Excellence Award.

- Thesis: A video annotation and search tool.

- Course Work: Algorithms, Operating System, OO Design, Database, Computer Architecture, Neural Networks, Image Processing.

- Teaching Assistant: Functional Programming, Algorithms

- Research Assistant: An open source, source-code search engine CVSSearch. Published in IEEE International Conference on Software Maintenance (ICSM 2001).

OTHER AWARDS

- Neural Networks and Deep Learning from Coursera

- Machine Learning from Coursera

- Toastmasters International

- Member of Australian Mathematics Olympiad National Team Training Squad

- Gold/Bronze Medallist in Australian/Asian Pacific Mathematics Olympiad