MICHAEL STORM

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PROFICIENCIES

Distributed systems, full-stack development software architecture, cloud, security, project management, Python, Java, JavaScript, React, AWS, PostgreSQL

EMPLOYMENT

Grove – Software Architect   January 2015 – present

- Technical lead on team that developed web app to gather data from clients and build a financial plan for them.
- Created engine that synthesized data from multiple sources to build a complete picture of clients' financial situation.

Aerovane – Founder/CTO   November 2015 – January 2017

- Founded and built a self-optimizing IaaS cloud platform distributed over AWS, Google Cloud Platform, and Microsoft Azure that achieves zero downtime by recovering from cloud outages.
- Implemented front-end with Angular.js and jQuery; implemented backend with Python/Django, Celery, and PostgreSQL.
- Followed lean startup methodology in working with external customers; made mistakes and learned from them.
- Couldn't raise funding; will probably open-source it.

Leeo – Backend Architect   July 2014 – June 2015

- Led the backend team in the design and implementation of a cloud-based mobile/web backend for in-home alarm monitoring devices and apps.
- Developed a scalable, reliable backend on a Rails/Python/Postgres/AWS stack that handled thousands of mobile and embedded device HTTP clients.
- Defined Agile software development practices from the ground up – code review, merge process, ticket management, testing standards, security reviews, etc.
- Evaluated prospective products and features for feasibility with respect to technical and international regulatory requirements.
- Left because the software department was laid off.

Cleversafe – Software Developer   November 2012 – April 2014

- Rebuilt client-side stack of a petabyte-sized distributed storage system in Python with Twisted – including a multiplexing network protocol, bespoke authentication layer, and "CP" distributed consensus protocol.
- Created scalable Bittorrent interface in Java for same involving predictive caching.

Chicago Mercantile Exchange – Software Engineer   March 2012 – November 2012

- Implemented microsecond-latency market data dissemination over high-speed network links in Java.

EDUCATION

DePaul University   September 2008 – March 2012

B.S. in Mathematics and Computer Science with a focus in the theory of computation.

SIDE PROJECTS

- Wrote a bulk data retrieval library for ext2+ file systems that incorporates disk geometry to increase read speed: https://github.com/michaelstorm/libdj.

- Wrote (the beginnings of) a C-to-BF compiler: https://github.com/michaelstorm/neuron.

- Ported Chord, a secure peer-to-peer network protocol, to the modern era for use in distributing astronomical sky images: https://github.com/michaelstorm/Tangent.

- Wrote an extensible regular expression library in C that can operate on any input, such as frames of video: https://github.com/michaelstorm/ReOS.