Sam Kreter

Permanent

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Focus: Machine Learning, High Performance Computing, Cloud Computing

EDUCATION

University of Missouri	Bachelors of Science in **Computer Science**	Minors in Spanish/Math
GPA: 3.86/4.00	**Expected Graduation May 2017**	

East China Normal University (华 东 师 范 大 学） – Shanghai, China   Feb 2015 - Jun 2015
- Mandarin and Business in China classes taught in Mandarin

Colegio Regis - Hermosillo, México   Aug 2010 – Dec 2010
- Variety of subjects taught in Spanish

Microsoft - Seattle, Washington   May 2016 – Aug 2016
Software Engineer
- Applying machine learning predictive models on a 128 Gigabyte data set
- Creating Bot Framework extension for developing intelligent bots

Center for Geospatial Intelligence - Columbia, Missouri   Feb 2016 – May 2016
Research Assistant
- High performance computer vision implementations using GPU
- Implementing pedestrian detection on a GPU using CUDA

Tinderbox - Indianapolis, Indiana   May 2015 – Aug 2015
Full Stack Developer
- Full Stack development, Ruby on Rails / Ember.js / MySQL / Amazon Web Services
- Implementing continuous integration and Agile Development

Bitnexo - Shanghai, China   Feb 2015 - Jun 2015
Full Stack Developer
- Worked alongside the CEO to fund raise with venture capital investing firms
- Built Bitcoin market depth calculator to find the loss or gain with exchanges from around the world

Anheuser Busch - St. Louis, Missouri   May 2014 - Aug 2014
Supply and logistics programming analyst
- Set up server cluster test environment for a production critical application
- Worked with Spanish speaking team to optimize ticket creating and routing system

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Computer Science Experience
Technologies
- **Languages:** C/C++(advanced), Python(advanced), JavaScript (advanced)
- **Frameworks and Libraries:** Scikit-learn, Boost (C++), NumPY, OpenCV, Rails, Node.js, Angular.js
- **High Performance:** CUDA, OpenMPI, OpenMP, C++ Threads
- **Databases:** Neo4j, PostgreSQL, MongoDB, SQLIte
- **Related Technologies:** Git(Github), CMAKE, Azure Services, Amazon (EC2, S3)

Open Source
- **Apache Airavata:** Software that allows easy management of large distributed systems

Projects
- implemented unsupervised solution for clustering farmland spectral image (K-means)
- Implemented Handwriting Recognition using Support Vector Machine (SVM)
- GitHub: https://github.com/samkreter

Hackathon Awards
- Best overall app at CodeDay STL (June 2014)
- Best in show and Best use of technology at Hack Midwest (July 2014)

Organizations
- President of Association for Computing Machinery (ACM, MCA)
- Society of Hispanic Engineers / Engineering Without Borders
- Chinese Language and Culture Association
- Planning committee for HackMizzou 2014 hackathon

SKILLS
- Business Proficient in **Spanish**: reading, writing and speaking
- Proficient in **Mandarin Chinese**: reading, writing and speaking

CERTIFICATIONS
- PADI Scuba Diving. DiveMaster, Rescue Diver, Advanced Open Water Diver