Kunal Baweja

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Education

- **Columbia University in the City of New York, USA**   Expected Dec 2017
  MS in Computer Science, GPA: 4.0/4.0
- **Birla Institute of Technology & Science, Pilani K.K. Birla Goa Campus, India**   Aug 2011 - May 2015
  B.E.(Hons.) in Computer Science, GPA: 7.49/10

Professional Experience

- **Developer Intern, 1010 Data Inc (Sys-Dev Team)**   June 2017 - Aug 2017
  - Caching data files on local ephemeral disks from persistent public cloud storage.
  - K vector programming, C++ DLL development and cache performance evaluation.
- **Research Internship at TSUNAMi Center, National University of Singapore**   June 2015 - May 2016
  - Prototyping and evaluation of research in computer security for web, distributed systems, file systems and applied cryptography.
- **Software Developer Intern, Bentley Systems Inc., India**   May 2014 - July 2014
  - REST API development for *Bentley Connect Interoperability Services*.
  - Data sharing among stakeholders and vendors for large scale infrastructure development projects.
- **Software Engineering Intern, Bharat Heavy Electricals Limited, India**   May 2013 - July 2013
  - Developed and released *BHEL Online Meeting Management System* including email reminders, file uploads, calendar updates and search.

Selected Projects

1. **Coverage Based Fault Injection Fuzzing**   Jan 2017 - May 2017
   - Detects security vulnerabilities caused by errors in execution environment of a program.
   - Simulates system call failures and detects vulnerabilities from program response.
   - Github: https://github.com/akshaynagpal/cbfi
2. **Frame-Seller: Simple demo for an e-commerce platform**   Jan 2017 - Apr 2017
   - Photo selling marketplace. Web app and API development using AWS components
   - Github: https://github.com/bawejakunal/Frame-Seller
3. **Sigma Learn - Class Room Lectures to Student Notes [Columbia ADI Hackathon]**   Jan 2017
   - Converts audio lectures to text transcripts and summary in realtime using Aylien and IBM Watson APIs.
   - Github: https://github.com/bawejakunal/Sigma-Learn
4. **ParkWizard - Real Time Street Parking Information**   Dec 2016
   - Rewards based android app to search and crowdsource street parking information, .
   - Github: https://github.com/sas2387/ParkWizard
5. **A Secure Sharding Protocol for Open Blockchains [Accepted: ACM CCS-2016]**   Oct 2016
   - Weblink: http://dl.acm.org/citation.cfm?doid=2976749.2978389
   - Authors: Loi Luu, Viswesh Narayanan, Chaodong Zheng, *Kunal Baweja*, Seth Gilbert, Prateek Saxena
6. **WeShare: A Coercion Resistant and Scalable Storage Cloud**   Aug 2015
   - A Google Chrome Extension to securely share files over cloud storage services.
   - Github: https://github.com/bawejakunal/MyCrest

Certifications & Technical Skills

- **Coursera.org Certifications**
  - Python For Everybody by University of Michigan (5 course specialization) [Certificate Link]
  - Machine Learning Foundations: A Case Study Approach by University of Washington [Certificate Link]
- **Technical Skills**
  - C/C++, Java, Python, K(vector programming), JavaScript, HTML5, CSS3
  - MVC Frameworks, Distributed Systems, SQL/NoSQL Databases, AWS

Links

- Linkedin: https://www.linkedin.com/in/kunal-baweja
- Github: https://github.com/bawejakunal