

# 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

- 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/cbfj>
- 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>
- 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>
- ParkWizard - Real Time Street Parking Information** Dec 2016
  - Rewards based android app to search and crowdsourcing street parking information, .
  - Github: <https://github.com/sas2387/ParkWizard>
- 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
- WeShare: A Coercion Resistant and Scalable Storage Cloud** Aug 2015
  - A Google Chrome Extension to securely share files over public 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>