

# 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** June 2017 - Present  
- Functional programming in K for columnar database development.
- **Digital Centers Teaching Internship, Columbia University** Sept 2016 - May 2017  
- Weekly Python programming lectures and workshops, open to everyone.
- **Research Internship at TSUNAMi Center, National University of Singapore** June 2015 - May 2016  
- Web and systems security, applied cryptography and distributed systems.
- **Summer Internship at Bentley Systems Inc., India** May 2014 - July 2014  
- Prototype and REST API development for *Bentley Connect Interoperability Services*
- **Summer Internship at Bharat Heavy Electricals Limited, India** May 2013 - July 2013  
- Software Development for *BHEL Online Meeting Management System*

## Selected Projects

1. **Coverage Based Fault Injection Fuzzing** Jan 2017 - May 2017  
- Detects security vulnerabilities caused by errors in execution environment of a program.  
- Github: <https://github.com/akshaynagpal/cbfi>
2. **Frame-Seller: Simple demo for an e-commerce platform** Jan 2017 - Apr 2017  
- Extensively used AWS for API development as a course project.  
- Github: <https://github.com/bawejakunal/Frame-Seller>
3. **Sigma Learn - Class Room Lectures to Student Notes [Columbia ADI Hackathon]** Jan 2017  
- Converts classroom lectures to text transcripts and summary in realtime.  
- Weblink: <https://devpost.com/software/sigma-learn>
4. **ParkWizard - Real Time Street Parking Information** Dec 2016  
- Android app to search and crowdsourcing information of street parking locations.  
- 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 & Scalable Storage Cloud [Undergraduate Thesis]** June 2015 - Aug 2015  
- A Google Chrome Extension to securely share files over cloud storage services.  
- Github: <https://github.com/bawejakunal/MyCrest>
7. **Bentley Connect Interoperability Services (BCIS)** May 2014 - July 2014  
- Developed REST API endpoints and prototypes for BCIS to synchronize data and services among various stakeholders of an infrastructure development project.
8. **BHEL Online Meeting Management System** May 2013 - Jul 2013  
- Salient Features: email reminders, calendar updates, file uploads, employee name search  
- Demo Presentation: <https://goo.gl/2g8aAo>

## 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, Java, Python, JavaScript, SQL, HTML5, CSS3, MVC Frameworks, Amazon Web Services