

# Kunal Baweja

515 West, 111th Street. Apt-2F, New York, NY-10025  
Ph: +1-914-689-5240 | Email: [kunal.baweja@columbia.edu](mailto:kunal.baweja@columbia.edu)

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## Education

- Columbia University in the City of New York, USA  
MS in Computer Science  
Sept 2016 - Dec 2017
- Birla Institute of Technology & Science, Pilani K.K. Birla Goa Campus, India  
B.E.(Hons.) in Computer Science, GPA: 7.49/10  
Aug 2011 - May 2015

## Employment

- **Digital Centers Teaching Internship, Columbia University**  
- Open for all labs and workshops on Python programming language.  
Sept 2016 - Present
- **Research Internship at TSUNAMi Center, National University of Singapore**  
- Web and systems security, applied cryptography and distributed systems.  
June 2015 - May 2016
- **Summer Internship at Bentley Systems Inc., India**  
- Prototype and REST API development for *Bentley Connect Interoperability Services*  
May 2014 - July 2014
- **Summer Internship at Bharat Heavy Electricals Limited, India**  
- Software Development for *BHEL Online Meeting Management System*  
May 2013 - July 2013

## Publication & Projects

1. **A Secure Sharding Protocol for Open Blockchains [Accepted: CCS-2016]**  
- ACM Conference on Computer and Communications Security, 2016  
- Weblink: <http://dl.acm.org/citation.cfm?doid=2976749.2978389>  
- Authors: Loi Luu, Viswesh Narayanan, Chaodong Zheng, Kunal Baweja, Seth Gilbert, Prateek Saxena  
Oct 2016
2. **Web Application Vulnerability Scanner**  
- Active fuzzer to detect SQL injections, RXSS, Open Redirection, LFI and RFI vulnerabilities  
Jan 2016 - June 2016
3. **WeShare: A Coercion Resistant & Scalable Storage Cloud [Undergraduate Thesis]**  
- A Google Chrome Extension to securely share files over cloud storage services.  
- Github: <https://github.com/bawejakunal/MyCrest>  
June 2015 - Aug 2015
4. **A Vnode Level Stackable Encrypted Filesystem [Undergraduate Thesis]**  
- 256 bit AES-CTR encryption with address space operations on top of *WrapFS*  
- Github: <https://github.com/bawejakunal/wrapfs-aes>  
Jan 2015 - Mar 2015
5. **Bentley Connect Interoperability Services (BCIS)**  
- Developed REST API endpoints and prototypes for BCIS to synchronize data and services among various stakeholders of an infrastructure development project.  
May 2014 - July 2014
6. **BHEL Online Meeting Management System**  
- Currently used by 2000 employees at *Bharat Heavy Electricals Limited, Bhopal*.  
- Salient Features: email reminders, calendar updates, file uploads, employee name search  
- Demo Presentation: <https://goo.gl/2g8aAo>  
May 2013 - Jul 2013

## 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, MySQL, HTML5, CSS3, ASP.NET/MVC Frameworks, Django, AWS

## Weblinks

- LinkedIn - <https://www.linkedin.com/in/kunal-baweja-99b97136>
- Github - <https://github.com/bawejakunal>