

## ZABIR HOSSAIN

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Portfolio: <https://zabir8809.github.io>

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### Education

- CUNY City College of New York M.S. Physics 2015
- CUNY City College of New York B.S. Physics (Honors Research) minor in Mathematics 2014.

### Skills

Ruby on Rails, NodeJs, ReactJs, Angular, RESTful APIs, enterprise Database, ElasticSearch, Caching database, HTML5, CSS3, SASS, Github, testing, MVC, Object-oriented programming, Linux, AWS(services: EC2, RDS, SES, SNS, S3, Cloudfront, VPC, Route 53), IBM Cloud, Docker, Managed Kubernetes, Cloud Foundry, Openshift, WAF & GSLB.

### Work Experience

#### **IBM**

Senior Cloud Architect June 2019 - Present

- ✓ Design cloud-native infrastructure for internal constituents.
- ✓ Established opinionated best practices in application design for migration and modernization.
- ✓ Provide guidance and technical enablement, build demos/PoCs and architecture patterns and help partners develop their technical architecture as they adopt the hybrid cloud strategy.
- ✓ Lead the development and continuous improvement of design patterns for business-critical applications.
- ✓ Engage cross-organization teams and lead the development of the cloud governance metric system.
- ✓ Actively interviewed prospective cloud architects for roles within the team.

Common Tech: Containerization, Docker, OpenShift, Kubernetes, Cloud Foundry, Load Balancers and WAFs, high availability and disaster recovery infrastructure, Artifactory/Container Registry, CI/CD, enterprise databases, Github, Jira.

#### **Economic Systems Inc.**

Full Stack Engineer March 2017- May 2019

- ✓ Develop and support applications for federal contracts.
- ✓ Develop UI/UX and design data schemas for prospective clients.
- ✓ Created a data visualization library based on Angular 2 and D3js.

Tech: Ruby on Rails, Sinatra, SQL/ElasticSearch/Logstash, JavaScript, JQuery, Angular 2, React.js, D3js, Sass, Bootstrap, GitHub/BitBucket, Jira, Agile, Scrum.

**Climate.IQ**

Full Stack Engineer

May 2016 - February 2017

✓ Developed a climate risk evaluation application that enables users to accurately and cost-effectively evaluate their exposure to significant climate risks.

✓ Actively involved in business model development, product development, and full software cycle development.

Tech: Ruby on Rails, PostgreSQL, PostGIS, Bootstrap, JQuery/JavaScript, Chartjs, Google API, Sass, AWS.

**StrategyHack**

November 2015

Developed a content marketing web application with a database of influencers categorized by search filters.

Tech: Ruby on Rails, PostgreSQL, Bootstrap CSS.

**Institute of Ultrafast Spectroscopy and Laser (IUSL) City College of New York**

Research Assistant

July 2012 - August 2014

Area of Research: Nonlinear Optics, Spectroscopy, and Interferometry, Lasers, Fiber Optics.

**Journal Publication:**

- "Tuning vector vortex in spatially coherent supercontinuum multicolored optical beam using q-plate" Proc. SPIE 8999, Complex Light and Optical Forces VIII, 89990 D (February 2014); doi:10.1117/12.2042102
- "Tunable supercontinuum light vector vortex beam generator using a q-plate" Optics Letters, Vol. 38, Issue 23, pp. 5083-5086 (October 2013).

**Awards:**

- Recipient of Army Educational Outreach Program Undergraduate Academic Research Grant (2013).
- Recipient of Joseph Grossfield Memorial Academic Scholarship (2011).