

# Shiva Harshvardhan Chaturvedi

LinkedIn — Available: March 2018 onwards

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## EDUCATION

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- **Northeastern University** Boston, MA  
*Master of Science in Computer Science* *Jan. 2015 – Dec. 2017*
- **Centre for Development of Advanced Computing** Mumbai, India  
*Post Graduate Diploma in Software Technology* *Aug. 2010 – Aug. 2011*
- **Bhartividyapeeth University** Pune, India  
*Advanced Bachelor of Science in Information Technology* *Aug. 2006 – Jul. 2009*

## EXPERIENCE

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- **Northeastern University** Boston, MA  
*Teaching Assistant* *Jan. 2017 - Jun. 2017, Sept. 2017 - Dec. 2017*
  - **Introduction to Computer Science:** Provided teaching assistance, grading and doubt solving sessions to Web Development and Computer Science Boot camp students
- **Turbonomic Inc.** Boston, MA  
*Software Engineer Intern* *Jul 2017 - Aug 2017*
  - **Data Warehouse:** Setup a data warehouse on Amazon Redshift to periodically collect Salesforce, JIVE and product data for statistical analysis
  - **Back-end Development:** Implemented features for website back-end using PHP, Grunt and Gulp.
- **New York Life Insurance Company** New York City, NY  
*Cloud Software Engineer Intern* *Oct. 2016 - Dec. 2016*
  - **Policy Admin Portal:** Implemented an Angular 2, AWS Lambda, Dynamo DB module to integrate Policy Admin Portal with Milliman API and visualize medical history data.
- **Centre for Development of Advanced Computing** Mumbai, India  
*Senior Technical Associate* *Sept. 2011 - Dec. 2014*
  - **Online Labs:** Implemented Java, EJS simulations of Physics Laboratory Experiments.
  - **JavaScript Simulation API:** Implemented a JavaScript simulation library for OLabs front-end.
  - **Continuous and Comprehensive Evaluation System:** Implemented student performance analysis module using Groovy on Grails

## PROJECTS

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- **Visualization of DNSSEC Resolvers:** A choropleth map with summary tables and histograms to visualize DNSSEC support worldwide, using d3.js, leaflet.js, GeoLite2 and OpenStreetMap. ([Demo](#)) ([Paper](#)) ([Github](#))
- **Velo - Pacific Northwest National Laboratory:** Implemented the Team Management module, a React, Redux application powered by REST APIs through AWS Lambda. ([Github](#))
- **iLike:** A Ruby on Rails application using Eventful, for personalized notifications of social events in proximity. ([Github](#))
- **Weather Forecast App:** A weather forecast app with trend visualization, using React, Google Charts. ([Github](#))
- **Tower Defense Game:** Tower Defense Game: A sophisticated shooting game implemented in Racket. ([more](#))
- **Simulation of Virtual Memory using Simple Paging Technique:** Simulation of Virtual Memory Management (Page Replacement Algorithms: LRU, LFU, FIFO and Priority Queue) using C. ([Github](#))

## PROGRAMMING SKILLS

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- **Languages:** : Java, Python, Javascript, ES6, R, Racket, C, Ruby, SQL, Processing, HTML, CSS3
- **Technologies:** : AWS (EC2, S3, VPC, Lambda, DynamoDB, Redshift), Angular, React, Redux, Reselect, Sagas, Rails, Servlets, JSP, Wordpress, jQuery, HighCharts, D3.js, Node.js Processing.js, Moment.js, EJS, Gulp, Docker, Loopback, Google Tag Manager, MongoDB, Mocha, Jest

## AREAS OF INTEREST

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Data Visualization — HCI — Data Mining — Machine Learning — Empirical Research Methods — Program Paradigm and Design — Statistical Modelling