Shiva Harshvardhan Chaturvedi

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EDUCATION

- **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

PROGRAMMING SKILLS

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

EXPERIENCE

- **Turbonomic Inc.** — Boston, MA
  Software Engineer Intern — Jul 2017 - Aug 2017
  - **Data Warehouse**: Setup a data warehouse on Amazon Redshift and wrote a Nodejs module to periodically collect Salesforce, JIVE and product data for statistical analysis using Tableau.
  - **Filter Implementation**: Implemented a feature to block trial downloads of multiple registrations from the same company.
  - **Back-end Management**: Responsible for management of 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 for background checks of policy applicants.
  - **Data Visualization**: Developed visualization component for visualizing medical history data of the applicant.

- **Centre for Development of Advanced Computing** — Mumbai, India
  Senior Technical Associate — Sept. 2011 - Dec. 2014
  - **olabs.edu.in**: Implemented 8 Java, EJS simulations of Physics Laboratory Experiments for CBSE schools
  - **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

- **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)

AREAS OF INTEREST

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

ACHIEVEMENTS

Founder of Ifpixelscouldtalk, a creative photography service with over 5000 followers and 50+ professional shoots.