Mihir Kavatkar

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Career Profile

Full Stack Software Developer with over 3 years of experience in delivering end-to-end applications. Core competencies include backend development in Python-Django, front-end development in React and AngularJS, relational databases, design RESTful API, design application architecture.

Career Highlights

- Core team member in the development of APT Webstudy (http://www.aptwebstudy.org/) with responsibilities of designing and implementing Restful API and using React/AngularJS for front-end implementation.

Professional Experience

University of Southern California (Alzheimer's Therapeutic Research Institute)   San Diego, CA
Programmer Analyst II   August 2016 – Present
- Developed applications on Electronic Data Capture system for Alzheimer's clinical research trials.
- Developed RESTful services using Django and worked with GraphQL and Apollo GraphQL Library.
- Experience in designing web apps using Bootstrap and built using React and AngularJS.
- Proficient in AWS services like VPC, EC2, S3, Lambda, RDS, IAM, SES, Step Functions.
- Used AWS Beanstalk for deploying and scaling full-stack web applications.
- Extensive experience in unit, functional and behavior-driven testing.
- Used Continuous Delivery/Continuous Integration (CD/CI) tools Jenkins, Travis, and Git for version control of code for development.

Electra Vehicles, Inc.   Boston, MA
Software Developer Intern   July 2016 – August 2016
- Developed application that can monitor usage of hybrid energy storage of electric or hybrid vehicles.
- Adopted a hybrid approach of using Ionic framework for cross-platform compatibility.
- Developed using JavaScript based technologies, MEAN Stack (Mongo, Express, Angular, Node).
- Experience in Angular Mocks, Mocha and Chai for basic unit testing of the application.

Patterns and Predictions, Inc.   North Dartmouth, MA
Summer Research Assistant Intern   June 2015 – July 2015
- Deep learning project: A deep reinforcement learning agent that play Atari game.
- Understanding the basics of Neural Networks(NN), CNN and their implementation in Theano Library.
- Developed a script to remotely execute different instances of the project on Amazon Elastic Cloud with different hyperparameters to analyze the best performing node in the cluster. (Python, C)

University of Massachusetts Dartmouth   North Dartmouth, MA
Research Assistant   December 2014 – May 2016
- Master's Thesis: Projects in GPU Computing with Performance and Benchmark Analysis.
- Benchmark parallel computing language, OpenACC in terms of performance, portability, and ease-of-use.
- Two heavy computation models in the field of black hole physics – a Teukolsky equation and a Scalar Collapse code was used for the research.

Education

University of Massachusetts Dartmouth, MA. **MS** in Computer & Information Science – 3.63
Vidyalankar Institute of Technology, India.   **BE** in Computer Engineering – 3.5

Skills

Python · Django · AngularJS · Behavior Driven Testing · AWS · HTML · CSS · JavaScript · NodeJS · Postgres · Keras