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# AAKASH PYDI

Computer Science

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## EMPLOYMENT

**Software Engineer** **Cerner Corporation** **March 2019**

GitHub Time Machine

- Spearheaded full stack design for allowing text search across branches in a given GitHub repository.
- Implemented server-side code to index GitHub repositories on an Elasticsearch search and analytics engine.
- Implemented client-side code to add/delete repos from the search index. **Elasticsearch, CppCMS, ReactJS**

## EDUCATION

**West Lafayette, IN** **Purdue University** **December 2018**

- Bachelor of Science (B. Sc) in Computer Science (Concentration in Machine Intelligence), **Technical GPA: 3.93**
- Relevant Coursework:
  **Machine Intelligence:** · Data Mining & Machine Learning (A) · Web Information Search & Management (A) · Information Systems (A+) · Deep Learning (A-) · Applied Regression Analysis (A)
  **CS Core:** · Analysis of Algorithms (A-) · Data Structures & Algorithms (A-) · Systems Programming (A+) · Programming in C (A) · Computer Architecture (A) · Objected Oriented Programming (A+)
  **Math:** · Calculus I & II & III (A+, A+, A+) · Linear Algebra (A) · Intro Statistics (A+) · Probability Theory (A)

## TECHNICAL EXPERIENCE

**Projects**

- **Neural Style Transfer Artwork** (Purdue Center for Brain-Inspired Computing, 2018). Implemented a Generative Adversarial Network to create images that captured the style of Indian artists. **Pytorch, Python**
- **Real Time Classification Video Stream** (Purdue CBRIC, 2018). Developed a video stream that classifies images in the stream in real time using a LeNet5 CNN trained on the CIFAR100 Dataset. **Pytorch, Python**
- **Twitter Auto-completer for Members of Congress** (Purdue NLP Lab, 2018) Created a custom dataset (1.5 mil tweets from 2017 US Congress). Used GenSim to generate custom word2vec representations and then used a Keras LSTM model to auto-complete tweets. **Keras, GenSim, Python**
- **Novel Framework for Sentence Classification** (2017). Replicated the key results from the paper, "A Novel Two-stage Framework for Extracting Opinionated Sentences from News Articles" (Pujari, Desai, Ganguly, Goyal). Used a combination of the Naïve Bayes classifier and the Hyperlink Induced Topic Search (HITS) algorithm to carry out fact/opinion classification of the sentences in the given corpus. **Java**
- **SafeWalk and RideShare Android Applications** (2015). Designed the SafeWalk app that optimally connected students in need of an escort on the Purdue campus, and SafeWalk volunteers. Developed the RideShare app that allowed students to make shared travel plans starting or ending at Purdue. **SQL, MVC Framework, Java**

## LANGUAGES AND TECHNOLOGIES

- Most Experienced with Java & Python; Some Experience with C++ & C & SQL & PL/SQL & JavaScript & CSS;
- PyTorch; Keras; GenSim; Galago Toolkit; Elasticsearch; CppCMS; ReactJS & Redux; Android Dev;

## AWARDS

- **Purdue University College of Science Scholarship Award.**
- **Purdue University Computer Science Department Scholarship Award**.

## ADDITIONAL EXPERIENCE

- President, Student Think Tank for India & Purdue Economics Association · Member, Special Interest Group for AI · Member, Purdue Cricket Club · Volunteer, Indiana Veterans Home & Hannah Community Center.