

Debasis Dwivedy

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EDUCATIONAL QUALIFICATION

Indiana University, Bloomington, IN **May 2017**
Master of Science in Computer Science **(GPA – 3.4/4.0)**
Programming Language Principles *Elements of Artificial Intelligence* *Science Gateway Architectures*
Computer Vision *Advanced Natural Language Processing* *Algorithms Design and Analysis*
Biju Patnaik University Of Technology, Orissa, India **May 2010**
Bachelor of Technology in Electronics and Communication Engineering **(CGPA – 8.02/10.0)**

PROFESSIONAL EXPERIENCE

PwC **Jan 2018 – Present**
Cyber Security Experienced Associate [AWS, Azure, Containers, Kubernetes, Docker, ForgeRock, CI-CD]

- Designed and implemented a cloud first approach for a Fortune 500 health care client.
- Harnessed their existing infrastructure with Hybrid cloud approach and automated their enrollment process with DevOps [Ansible]
- Containerized ForgeRock stack on AWS and Azure using Docker.

Global Touchpoints, Inc. **July 2017 – Jan 2018**
Software Developer, Deloitte [Java, Oracle, Web Services, SOAP, Spring Batch]

- Design a Medicaid system for state of Tennessee.
- Expose these as web services using SOAP protocol to be leveraged by other modules and created spring batch module for weekly document processing.

Indiana University Bloomington **Aug 2016 – May 2017**
Associate Instructor, CSCI-B 503 [Algorithm Design and Analysis]

- Assist Professor Ergun and Professor Yuan during their lectures and clarify the doubts of students about the subject matter.

Indiana University Bloomington **May 2016 – July 2016**
Developer, Cayman [Volunteering/Unpaid] [Typescript]

- Developed a parser module under Dr. Andy Somogie for Cayman, a JIT compiled language, which takes the input as a file and provides a graphical representation of the syntax tree.

UST Global Pvt. Ltd. **August 2013 – January 2015**
Software Developer, Public Sector [IBM FileNet Case Manager, Java, IBM DB2]

- Developed a Court Case Management System, which was an in-house product for UST Global public sector division.
- Created configurable modules for high customization.

Tata Consultancy Pvt. Ltd. **December 2010 – July 2013**
Systems Engineer, Banking and Insurance [IBM FileNet Content Engine, IBM FileNet Process Engine, Java, REST]

- Migrated existing system from FileNet version 3.5 to 5.1.
- Designed and developed web-services and thin clients applications for global usability.
- Developed business workflows for clients legal department using java and filenet process engine.
- Created a filenet thin client for access to multiple filenet object stores across varied domains using java api

ACADEMIC PROJECTS

Natural Language Processing

- Part of speech tagger*: Implemented a part of speech tagger using n-gram tagger, hidden markov model and support vector machine. [Python]
- Stance Detection*: Created a stance detector module for sentiment analysis, which takes twitter feeds and classifies it as positive, negative or neutral. [Python, Scikit-learn, Gensim-Word2Vec/Doc2Vec]
- Voice Search*: Created a module to convert natural language expression to SPARQL query and retrieve data from the underlying SPARQL database, make necessary inferences and respond back using natural language. [Python]

Computer Vision

- Stereo*: Created depth maps from single images. [C++]
- Pulse Detector*: Created a contactless video analysis tool based on Eulerian Video Magnification (EVM) mechanism, which can detect the pulse of a person using a web-cam. Extended the module to detect emotion of the subject. [Java, Open CV]
- Image Orientation*: Implemented a classifier in python to classify images based on their orientation. [Python]

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Compilers

- *PC2J Transpiler*: Created a transpiler that can convert Scheme code to Java code. [*Scheme*]

Micro Services and DevOps

- *Weather Predictor*: Created an enterprise level weather predictor application using micro-services architecture. Implemented continuous integration, message queuing and inter modular communication. [*Java, Python, Node JS, Mongo, SQL, Travis CI, Amazon Code Deploy, Apache Camel, Apache Thrift, Rabbit MQ, REST*]

TECHNICAL SKILLS AND CERTIFICATIONS

- **Programming / Scripting Languages**: Java/J2EE, JavaScript, Python, Scheme, Node JS, Typescript.
- **Technologies**: Spring MVC, REST, SQL, Mongo, Enterprise Content Management, Elastic Search, Rabbit MQ, Travis CI, Apache Thrift, Micro services, Amazon code deploy, AWS, Azure, Ansible
- **Certifications**: Java SE 6 Programmer, Java EE 5 Web Component Developer, IBM FileNet Developer.