## Arindam Nandi

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EDUCATION	University at Buffalo, The State University of New York, Buffalo, New York, USA	
	<ul> <li>Master of Science (M.S.) in Computer Science and Engineering</li> <li>Databases and Programming Languages, Distributed Systems, Machine Learnin</li> <li>Thesis (in progress) : Mimir, bringing CTables into practice</li> <li>Cumulative GPA: 4.0 / 4.0</li> </ul>	Aug 2014 – May 2016 ng, Operating Systems
	West Bengal University of Technology, Kolkata, West Bengal, India	
	<ul> <li>Bachelor of Technology (B.Tech.) in Computer Science and Engineerin</li> <li>Data Structures and Algorithms, Networking and Cryptography, Compilers, Co</li> <li>Cumulative GPA: 8.17 / 10.00</li> </ul>	ng Aug 2010 – Jul 2014 mputer Architecture
RESEARCH	<b>University at Buffalo. The State University of New York.</b> Buffalo. New	York, USA
EXPERIENCE	<ul> <li>Research Assistant Jun 2015 ongoing</li> <li>Project: Mimir, automated ETL data cleaning with provenance tracking to streamline data exploration</li> <li>Adviser: Professor Oliver Kennedy</li> <li>Research areas: Probabilistic databases, data provenance, scalability.</li> <li>Accomplishments: Introduced novel strategies for better join query performance with provenance tracking</li> <li>Technologies: Scala, Java, Play Framework</li> </ul>	
PUBLICATIONS	<u>A. Nandi</u> , Y. Yang, O. Kennedy, B. Glavic, R. Fehling, Z.H. Liu, D. Gawlick, "Mimir: Bringing CTables into Practice" <i>under submission</i> , <i>SIGMOD 2016</i>	
SKILLS	C, Java, Scala, SQL, Python, C++, JavaScript, CSS3, HTML5, Git, *nix	
PROJECTS	ValkyrieDB	Sep 2015 – Dec 2015
	<ul> <li>ValkyrieDB is a SQL query processing engine that generates efficient query plans and compiles them to LLVM assembly code before execution, running 50% faster than equivalent Java implementations</li> <li>Technologies: Java, C++, LLVM, Python</li> </ul>	
	SimpleDynamo	Feb 2015 – May 2015
	<ul> <li>Implemented a distributed key-value storage similar to Amazon Dynamo as an Android app</li> <li>Chain data replication for data consistency, load sharing based on consistent hashing and partition tolerance for random node failures and rejoins</li> <li>Technologies: Android SDK</li> </ul>	
	OS/161	Feb 2015 – May 2015
	<ul> <li>Augmented a barebones kernel to a fully-functional multiprocessing operating system</li> <li>Added synchronization primitives, processes, file-system system calls and a virtual memory subsystem to the OS/161 operating system kernel</li> <li>Technologies: C, GDB</li> </ul>	
	Machine Learning Projects	Sep 2014 – Dec 2014

- Regression Query document relevance
- · Used a Microsoft Asia research dataset to train a regression model to predict query to document relevance ratings
- Classification Handwritten Digit Recognizer
  - Built a handwritten digit recognizer using logistic regression, neural networks and support vector machine classification with training data of 15,000 images, achieving 98.4% accuracy
  - Technologies: MATLAB

Sep 2014 – Dec 2014