

SETU KUMAR BASAK

PhD Student | Software Security | Software Development

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EXPERIENCE

Graduate Student- RealSearch Lab

North Carolina State University

Since October, 2021

- Worked on a study of technical challenges faced by developers for managing secrets-containing software artifacts
- Worked on finding best practices for secret management in software artifacts
- Working on risk-based software secret management

Teaching Assistant- Software Security

North Carolina State University

Since January, 2022

- Assisting students to implement different security techniques in a healthcare software. Preparing material and guideline for different security tools and techniques.

Development Lead

Enosis Solutions

March 2021 – August 2021

- Manage total 20+ number of developers
- Ensure ideal career growth of the developers and evaluate the devs on quarterly basis
- Delivery of work within established timelines
- Project plan maintenance
- Provide training to new team members
- Client communication and status reporting through online meetings and email

Senior Software Engineer

Enosis Solutions

March 2018 – Feb 2021

- Worked on ASP.NET framework
- Worked on Ionic and Angular frameworks
- Worked on AWS S3, AWS Lambda and AWS EC2 instance
- Requirement Analysis and Task Breakdown & Estimation
- Code Review & Peer Review
- Doing sprint planning and assigning tasks to team members
- Maintain project plan
- Provide training to new team members
- Giving demo to clients

Software Engineer

Enosis Solutions

May 2016 – Feb 2018

- Worked on Scala, Play framework and Apache Spark
- Worked on JavaScript frameworks like canJs, stealJs
- Worked on Redshift and mongoDB
- Requirement analysis and task breakdown
- Task estimation

EDUCATION

PhD - Computer Science

North Carolina State University

Aug'21 – May'26(Tentative) CGPA : 4.0/4.0

BSc. - Computer Science

Khulna University Of Engineering & Technology

January 2012 – May 2016 CGPA : 3.9/4.0

COURSES

- **Graduate Courses:** Software Security, Software Engineering, Experimental Statistics, Design and Analysis of Algorithms, Database Management Concepts and Systems

PROJECTS

Denticon

- Worked on mostly all parts of the project especially insurance payment system, restorative and perio chart using ASP.NET MVC, SQL Server and Javascript.
- Converted the ASP.NET Webforms pages to ASP.NET MVC.
- Managed the offshore development team.

Senrana

- Worked on the opportunity analysis model using Scala, Apache Spark and Redshift

Houselens

- Worked on the upload service using ASP.NET, AWS S3 and AWS Lambda

SKILLS

- **Languages:** C, C++, C#, JavaScript, Scala
- **Tools & Frameworks:** SAST, DAST, IAST, ASP.NET, SQL Server, Oracle 10g, MongoDB, Rest API, Apache Spark, JS frameworks
- **Research Method:** Qualitative & Quantitative analysis, Security testing, Data-driven discovery and analytic, Machine Learning, Deep Neural Network

REFERENCES

- Dr. Laurie Williams, Distinguished Professor, North Carolina State University; PhD advisor