Debasish Chakroborti (Joy), Ph.D.

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Employment History and Projects

2024–... 🔖 **Faculty at the School of Computing and Digital Innovation, Saskatchewan Polytechnic** - Conducted classes in Computer System, Cloud Computing and Blockchain Program.

🔖 **Living Skies Postdoctoral Fellow, UofS** - NSERC CREATE Software Analytics Research (SOAR) project.

2025–25 🔖 **Consultant (AI Automation Team), Cloud Linux Software, Inc., a Delaware Corporation, USA.** - Provided expert advice on developing an AI-based automated backporting tool.

2024–24 🔖 **Sessional Lecturer, Department of Computer Science, University of Saskatchewan.** - Delivered lectures and conducted labs on topics in Computer Science.

🔖 **Software Engineer (Intern), Push Interactions.** - Enhanced `https://www.wilger.net` website.

2023–23 🔖 **PhD Intern (Remote), Synesis IT GmbH, Germany.** -Conducted API planning and managed big data databases for Traffic Management **Intelligent Transportation Systems**.

2022–24 🔖 **GSA Office Coordinator (Part-time), Graduate Students' Association.** - Maintained the **GSA website** at `https://gsa.usask.ca`, added new web pages based on services and events. `HTML` and `JavaScript`.

🔖 **Software Engineer (Part-time), Saskatchewan Education Leadership Unit.** - Maintained the **Placement Application** at `https://placement.usask.ca`. Developed a matching model for Teacher Candidates and Mentors.

2017–24 🔖 **TA, RA, Masters and, PhD, UofS, Plant Phenotyping and Imaging Research Centre, Global Institute for Food Security.**- Developed **RISP and RISPts** data re-usability algorithms within WfM System. Developed tools in Software Engineering and Image Processing domains such as **Backzer**, **ReBack (CNN)**, **BackTrans (LLM)** and **BackSlice** for analyzing, recommending, and adapting backporting pull-requests and **InsCount** (based on UNet) for counting dense organs in plant images.

2013–24 🔖 **Lecturer, Computer Science and Engineering Discipline, Khulna University, Bangladesh.** - Conducted classes and research, and implemented the websites for Khulna University (`ku.ac.bd`) and ICCIT (`iccit.org.bd/2013/`). `Html, css, JavaScript, R, Python, Java, .Net, Apache Web Server, Github`.

2013–13 🔖 **Software Engineer, Nascenia Limited, Bangladesh.** - **SnapKnot**. Developed a centralized wedding photographer directory website (`https://snapknot.com/`). Implemented backend functionality for searching photographers and couples using `Ruby on Rails, ASP.NET, C#, Git`.

2012–13 🔖 **Software Engineer, Divine IT Limited, Bangladesh.** - Worked on various ERP systems (`https://www.divineit.net`) including Lines Pay, Sphere, and Prism. `Django, Mysql, Postgresql, sqlite, SVN`.

Activities and Achievements – Awards, Volunteering

2017-23 🔖 **Over ten scholarly articles in renowned journals and conferences, including ICSE, ICPC, MSR, JSME, EMSE, EICS, Big Data, and ASE.**

2008-23 🔖 **Carl McCrosky Innovation Scholarship for Graduate Studies 2023, GSA Mark Kroeker Exceptional Student Leadership Award 2023, Saskatchewan Innovation and Opportunity Scholarship**, **Ph.D. Citizenship Award 2024**, **Departmental Scholarship**, SOAR, SEMLA, CSGC Best Poster Awards, **Ivan and Margaret Toutloff** Award, **Graduate Travel Awards for Seattle-Melbourne- Montreal Visits, Innovation Award Khulna, Deans Merit Scholarship Khulna University**.

2017-22 🔖 **President** of the Computer Science Council, **Volunteer Lead at Digitized-Technology** event for Saskatchewan students, **Vice President–Social**, **Vice President–Admin** of the CSGC-UofS, **Member** of Research Fest Committee-UofS, **Vice President – Events** of the Bangladeshi Association-Usask, Volunteer Lead at SSPP, Volunteer at **Global village**, Volunteer at **Folk-fest**, GSA rep for the **Associate Dean Students Search Committee**, GSA rep on **Arts and Science Planning Advisory Committee**.

Education

2020–24 🔖 **Ph.D., Computer Science, University of Saskatchewan, Canada**

2017–19 🔖 **M.Sc., Computer Science, University of Saskatchewan, Canada**

2008–12 🔖 **B.Sc., Computer Science and Engineering, Khulna University, Bangladesh.**