Uttkarsh Singh

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EDUCATION

University of Illinois at Urbana-Champaign – Grainger College of Engineering *Expected Graduation: May 2026*
Bachelor of Science in Computer Science **GPA: 3.6 / 4.0**

Dubai International Academy, Emirates Hills
International Baccalaureate Diploma in Physics, Mathematics & Computer Science **41 / 45 Points**

EXPERIENCE
https://www.linkedin.com/in/karsh-singh

Hexaware Technologies Herndon, Virginia
Java Full-Stack Developer *May 2025 – August 2025*
- Architected an extensible Java code transformation framework driven by JSON-based recipes using JavaParser library for AST parsing, type resolution, and semantic refactoring. Positioned as the successor to Hexaware Amaze (flagship code-transformation tool)
- Authored generic and reusable recipes for multi-million-line Java code upgrades and framework migrations, cutting manual migration effort from weeks to hours and reducing defect rates by 90% through AST-based analysis instead of traditional string manipulation.
- Integrated the engine into Jenkins CI/CD pipelines with Git hooks and automated JUnit tests, enabling automated modernization checks during builds and reducing manual review time by 50%.
- Prototyped a recipe-recommendation tool using Langchain and RAG, reducing onboarding time for developers and enabling faster adoption of the transformation engine across departments, in turn laying the groundwork for ML-assisted code modernization.

Xceedance New Delhi, India
Associate Programmer *June 2025 – August 2025*
- Configured and customized Duck Creek Claims v11 to align with BHSI (Berkshire Hathaway Specialty Insurance) client requirements, tailoring workflows, and data models for automated FNOL intake and claims adjudication.
- Developed custom automation scripts for chained Duck Creek v12 API calls (Config and RUN databases), streamlining Claims Studio configuration and reducing manual setup time.
- Collaborated with business analysts and QA teams to translate insurance requirements into Duck Creek configurations, accelerating project delivery and reducing configuration errors.
- Delivered technical presentations and underwent real-world client evaluation on Duck Creek Claims v11, achieving an 80% score across technical, domain, and presentation skills, progressing toward Duck Creek Claims Configurator Certification.

SmartCoin Financials (Olyv) Bengaluru, India
Software Development Engineer *June 2024 – August 2024*
- Developed Java microservices for the Play framework to resolve a CSRF filter error encountered by employees during testing.
- Implemented React Server Components utilizing a Node.js server in Express to improve SEO and reduce the initial load time of the company's web application by 100%.
- Executed testing across the full stack with React 19 (RC) to prepare for a seamless UI upgrade to the stable version on release.
- Built custom Codemods to automate critical changes thereby simplifying the development team's transition to server-side rendering.
- Established CI/CD in Google Cloud Platform using Bitbucket for automated builds and Docker for a containerized environment.

Uber Champaign, Illinois
UI/UX Designer / Full-Stack Developer *November 2022 – February 2023*
- Designed a Next.js application for a prototype version of Uber tailored specifically towards teenagers.
- Integrated Yahoo's Finance API with Django and SQLite to replicate Figma-designed functionalities enhancing user experience.
- Maintained a CI/CD pipeline utilizing Git for version control and Jenkins for automated unit tests, streamlining the development process, and accelerating deployment times by 30%.

Resolute AI Dubai, UAE
Machine Learning Engineer *April 2021 – July 2021*
- Developed Python scripts utilizing OpenCV to automate image preprocessing tasks, enabling server-side execution, and reducing the load on office workstations.
- Manually annotated over 3000 images in Labelbox, enhancing detection and improving data reusability for subsequent departments.
- Evaluated auxiliary Machine Learning models by recording performance metrics against k-fold cross validation and compiled findings into comprehensive reports to guide model improvements.

CERTIFICATIONS & SKILLS
https://uttkarshsingh1738.github.io/Web/

✧ AWS Certified AI Practitioner (October 2028) ✧ Salesforce Certified Agentforce Specialist ✧ IBM AI Engineering Professional Certificate

Skills: Java, Python, C++, C#, TypeScript, SQL, Rust, OCaml, MongoDB, Hadoop, React, Next.js, Node.js, Django, Scala, Play Framework, ASP.NET, FastAPI, LangChain, TensorFlow, PyTorch, OpenCV, YOLO, Docker, Kubernetes, Jenkins, Git, AWS, GCP, CI/CD