

# PANKHURI GUPTA

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## Education

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**Northeastern University: Master of Science in Computer Science** Jan 2024 – Present  
*GPA: 3.8/4.0; Coursework: Object Oriented Design, Algorithms, Web Design* Boston, MA

**BML Munjal University: Bachelor of Technology in Computer Science** Sept 2015 – Aug 2019  
*CGPA: 7.6/10; Coursework: Computer Networks, Distributed Systems, Cloud Computing* Gurgaon, HR

## Experience

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**Hexagon India Pvt. Ltd.** July 2021 – Dec 2023  
*Software Engineer* Noida, UP, India

- Built 15+ Geospatial Information Systems (GIS) solutions using Java Swing, FX and Luciad SDK
- Augmented user interaction over geographical features on map delivering high-performance spatial data visualization
- Modelled a real-time, interactive visualization in web-based geospatial applications onto 3D surfaces using Node.js
- Developed an image processing API, optimizing data retrieval & processing, and reducing processing time by 30%

**Tata Consultancy Services** Sept 2019 – June 2020  
*Assistant Software Engineer* Lucknow, UP, India

- Developed a dynamically rendering-based administrative dashboard adopted by over 200+ customers across India
- Created 20+ highly intuitive UIs with Dice MVC architecture and OOPS, enhancing the overall user experience by 35%
- Triaged client issues, reducing resolution times by 5 hours/week, ensuring on-time product development
- Engineered big data validation algorithm for CRUD operations reducing tickets logged by 50%

**4c Plus (Internet) Company Ltd.** Feb 2019 – Aug 2019  
*Software Developer Intern* Ghaziabad, UP, India

- Built a cross-platform backend service for an image copyright marketplace, reducing server response time by 40%
- Implemented Angular lazy loading and responsive images, cutting load times by 30% and boosting user experience
- Designed and implemented advanced image search optimization algorithms using image hashing for efficient indexing, resulting in a 30% improvement in retrieval times and search accuracy

## Projects

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**ElderlyCare Solution** | *React, Node.js, MongoDB, Express, JWT, OpenAI Api, Multer, Stripe* April 2024

- Created an intuitive platform enabling elderly users to easily book and track appointments, featuring an AI-powered assistant (EC Buddy) for personalized support and reminders
- Integrated Stripe for secure payments, streamlined payment processing upon successful doctor appointment bookings
- Enabled real-time synchronization with calendars, ensuring seamless updates and consistency across all scheduled appointments, saving doctors up to 20% of their time and reducing scheduling conflicts by 30%

**Enterprise from Home Exchange (EFHX) Portal** | *Angular, Node.js, Firebase Auth, MySQL* October 2021

- Created a robust platform connecting job seekers and freelancers with recruiters, achieving an increase by 30% for collaboration and employment
- Implemented Firebase authentication, integrating Gmail and Facebook login on the platform, streamlining user sign-in

**Customer Portal for HT Media** | *Angular, Node.js, MySQL, PHP, AWS S3* July 2021

- Developed a RESTful application using PHP to automate email generation, integrated with AWS S3 for content retrieval, and built a user-friendly dashboard for managing email workflows
- Implemented auto-email and manual email features to improve customer notifications for billing, outstanding amounts, invoices, and EVTS reports, increasing communication efficiency by 40%

## Technical Skills

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**Languages:** Java, Node.js, PHP, C++, C, C, HTML, CSS, JavaScript, TypeScript, SQL, MongoDB

**Technologies/Frameworks:** JavaFX, Java EE, ASP.NET Core, AJAX, Spring Framework, Angular, React, Jenkins, Kubernetes, Docker, IIS, SVN, Kettle Spoon, Git

**Concepts:** GIS Solutions, SDLC, Object Oriented Programming, Operating Systems, Databases, Algorithms, Full Stack Development, DevOps, Project Management, CI/CD, Version Control Systems

## Achievements and Certifications

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- **Community Award at EthBoston Hackathon 2024** - Organized by EthBoston & BostonDAO at Boston University
- **2nd place Webnova II Hackathon 2024** - Organized by WebNova DoraHacks
- **Finalist at Polkadot Hackthon 2024** - Organized by EasyA at Harvard University