

Prabakar Chettiyar

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EDUCATION

M.S. Computer Science	Jan 2022 – Dec 2023
Arizona State University, Tempe, AZ	4/4 CGPA
B.Tech. Computer Science and Engineering	2014-2018
National Institute of Technology, Tiruchirappalli, IN	7.03/10 GPA

TECHNICAL SKILLS

Programming Languages: Java, JavaScript, TypeScript, C/C++, Python, Bash

Full Stack Development: Angular, React, HTML, CSS, Spring Boot, Django, Flask, MySQL, PostgreSQL

DevOps & Project Management: Jenkins, AWS, Docker, Git, JIRA, Agile

WORK EXPERIENCE

Software Development Engineer Intern: Amazon.com Inc, Seattle, WA	May 2023 – Aug 2023
<ul style="list-style-type: none">Developed a solution allowing owners to upload and launch page configurations in the books team, providing validation, allowing edits and rollbacks of the page configs in the BRILayer platform.Implemented front-end web app in React, and back-end changes in Spring Boot to facilitate the migration from S3 to AWS App Config.	

Software Engineer: Fidelity Investments, Chennai, India	June 2018 – December 2021
<ul style="list-style-type: none">Developed Derivatives and Collateral Trade processing software for mutual fund services middle office operations using Spring Boot and Angular, ensuring real-time updates through ActiveMQ queues.Facilitated application deployment to AWS cloud leveraging Jenkins CI/CD pipelines and Docker, enhancing the efficiency and reliability of processes.Provided technical support for live production issues, performing RCA through Datadog, promptly resolving challenges, and minimizing downtime.Utilized JIRA for efficient project progress tracking and Git for version control.	

Software Engineer Intern: Fidelity Investments, Chennai, India	May 2017 – July 2017
<ul style="list-style-type: none">Developed a real-time feedback system using Angular, enhancing communication and feedback processes between associates and senior management.Collaborated effectively with diverse stakeholders in building robust enterprise software and coordinated between different teams.	

RELEVANT PROJECTS

Medical Imaging, CSE 591 Course Project	Jan 2023 - April 2023
<ul style="list-style-type: none">Colonoscopy Polyp Segmentation: Utilized UnetPlusPlus with ResNet-34 on ASU-Mayo Dataset to segment and localize polyps achieving Dice score and IoU score of 0.828 and 0.823 respectively.Chest X-ray Disease Classification: Leveraged Swin Transformer on NIH Chest X-ray dataset for multi-label classification of 14 thoracic diseases reaching ~95% accuracy for most labels and improving AUC to 0.78 after data augmentation.	
SportsFete'17 Android app, Club Project	September 2017
<ul style="list-style-type: none">Developed an Android application in Java that displays real-time scores and commentary for the college annual inter-departmental sports competition.Integrated Firebase libraries provided by Google for caching and real-time database operations.	
PC controller, Personal Project	January 2015
<ul style="list-style-type: none">Developed an Android app that communicates with computers using TCP sockets, delivering enhanced media control for playback and presentation management and complemented the app with a Python Script running on the PC to enable media controls.	

AWARDS AND ROLES OF RESPONSIBILITY

- Head of App development**, Spider R&D club, NIT Trichy 2015-2018. Oversaw the complete life cycle of mobile and web applications, including initial concept, requirements gathering, design, development, testing, and deployment, leading to the successful launch of multiple projects that garnered positive user feedback.
- Hackathons: Finalists**- Shaastra'16-Annual National level Tech. Festival, IIT Madras: Developed a resource allocation app for disaster management. **3rd Place**, Ingenius Hackathon, Bangalore 2016: Built an online debating app.