Binoj David

#29, Vallalar Nagar, Thiruverumbur – Trichy 620013 TN – India

📱 +91 98949 09332 • ✉ dbinoj@gmail.com • 🌐 www.dbinoj.com

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Objective

To nurture my knowledge and skill set as a full stack developer by working in an challenging environment with awesome people who uses tech to solve real world problems.

Programming Skills

languages	Python, PHP, Javascript, C
frameworks	Django, Flask, AngularJS, Drupal, Wordpress, Kibana, CodeIgniter, Moodle
services	ElasticSearch, RabbitMQ, Logstash, docker, apache2, nginx, mysql, postgresql
tools	npm, git, vim, Atom, LaTeX, Adobe CC
operating systems	CentOS, Ubuntu, Microsoft Windows, MacOS X which is very *nix like
opensource	free electives selection software, network management system, drupal module, moodle patches, Django and osTicket issues & small scripts

Experience

2015–Present **Full Stack Developer, Freelance.**

Django Stack and DevOps Engineer.

Detailed achievements:

– Developed back-end APIs and services for a cloud based software using Django, Django REST Framework, RabbitMQ messaging broker and Celery along with Point of Sale integration for a food chain.

– Used docker to deploy services as containers for easy scalability and dependency management.

– Developed a custom PingDom like service in Django for Karunya University to monitor their entire server & network infrastructure with alerting.

– Developed a Flask & nginx-rtmp based application to automate broadcasting of Live Events and television graphics.

– Developed and implemented real time network monitoring solution for Big Data of 25GB per day using the ELK stack and integrated it with existing network management software.

2013–2015 **Software Programmer, Karunya University, Coimbatore.**

Fullstack Developer responsible for design and development of software required for the University.

Detailed achievements:

– Developed software for implementation of Online Exams including customization of Linux based secure OS, question bank, quiz software and individually personalized final exam question papers in LaTeX for around 3000 students.

– Developed software for managing network devices and network users which includes network registration, automatic DHCP configuration, network device monitoring.

– Developed software for automatic evaluation of C programs for final practical exams of around 1500 students.

– Developed a software in PHP with incoming email gateway to manage support tickets and assign tasks to employees.

2011–2013	Earn While You Learn Intern, Karunya University, Coimbatore.
	Worked as a part-time developer for Computer Technology Centre.
	Detailed achievements:

- Developed software for managing free electives registration for students where around 1200 students register their electives on first come first serve basis.
- Developed a faculty portfolio website using Drupal where faculty members create their academic portfolio websites without the need to write code.
- Developed a software for online registration of graduands which helped to efficiently register 1500 students in 1 hour.

Academic Project

Title	Virtual Classroom
Description	A web conferencing system for distance education and virtual classroom setup along with an Android mobile application which integrates into existing eLearning tools of the University. Utilized WebRTC to send instructor's video to students with Red5 fail-over. Used headless LibreOffice to convert uploaded slides to PDFs thus eliminating missing font-rendering issues for students. Implemented multicasting for video streaming in lab environment.
Title	Online Video Lectures
Description	An online portal written in PHP where teachers can create courses and upload videos of them explaining concepts and evaluate students with quizzes. Videos uploaded were encoded using ffmpeg for web and mobile viewing.

Education

2013	B.Tech., Information Technology, Karunya University, Coimbatore.
2009	HSC, Computer Science & Mathematics, RSK Hr. Sec. School, Trichy.

Achievements

- Oracle Certified Professional Java Programmer.
- Successfully completed Cisco Certified Network Associate Course.
- Second place in Ethical Hacking competition conducted by Computer Society of India.
- Coordinated State Level Workshop on Open Source & Liferay Portal at Karunya University.
- Contributed the Drupal module developed and other code snippets to the Open Source Community and IRC support volunteer.

Workshops Attended

- Two days of GNOME Asia Summit 2011 at Bangalore.
- Two days Hands-on Ethical Hacking workshop conducted by Innobuzz Knowledge Solutions at NIT, Trichy.
- One day workshop on Networking & Packet Tracer by Cisco at Karunya University.

Languages

English	Fluent
Tamil	Native