

Shane Dharan

SOFTWARE ENGINEER

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Education

B.Eng. in Computer Engineering

UNIVERSITY OF GUELPH

Guelph, ON

Sept. 2011 - April 2016

- Specialized in the software engineering stream.

Relevant Work Experience

Full Stack Developer

SENSIBILL - PRODUCT TEAM

Toronto, ON

September 2016 - Present

- Worked on the receipt processing pipeline using Node.js and MongoDB.
- Improved aspects of the machine learning algorithms for receipt data extraction.
- Participated in Architectural planning to improve system reliability.
- Improved performance and fixed critical bugs in admin portal.
- Owned the entire software life-cycle for projects, from design to deployment.

Software Developer Intern

QUESTRADE - ALGORITHMIC TRADING TEAM

Toronto, ON

June 2015 - November 2015

- Independently developed position analyzer for operators of the high frequency trading machine.
- Replaced third party application and improved data analysis from 1 minute to 5 seconds.
- Tested and debugged several critical components using logging and system level testing.

Selected Personal Projects

Lahni - Personal Assistant

CONTRIBUTIONS: BACKEND DEVELOPMENT

March 2017

- Developed a chatbot service to assist people living with Dementia.
- Developed an analytics tool to give valuable insight to Caretakers using data collected from chatbot.
- Leveraged a cloud based NLP service to classify the context of the conversation.

Gaze Controlled Mouse Cursor

CONTRIBUTIONS: RESEARCHER AND LIBRARY DEVELOPMENT

January 2016 - April 2016

- Developed a pupil detection algorithm to track the movement of the eye.
- Implemented a gaze estimation algorithm utilizing a several research papers.

Bridge 2 Grid

CONTRIBUTIONS: BACKEND DEVELOPMENT AND ANDROID DEVELOPMENT

June 2016

- Developed an application that allows user's to retrieve data from the internet without data or WIFI.
- Implemented a custom SMS text messaging protocol to communicate JSON data from web services to the application.

Memory Box

CONTRIBUTIONS: BACKEND DEVELOPMENT

November 2015

- Developed a memory logger application for Android to record and recall memory notes via voice.
- Created a REST service to log and retrieve individual patient data.

Skills

Languages: JavaScript/Node.js, Java, Python, C/C++

Technologies: Express, MongoDB, RabbitMQ, Angularjs, Flask/Flask-Restful, OpenCV

Concepts: Concurrency, API Design, Microservices, Pipelines