

# AKSHATH CHAUDHARY

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## » EDUCATION

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### University of Waterloo

September 2019 - Present

2B, Candidate for Bachelor of Computer Science, 2024 | CGPA: 90.93%

- Awards: Dean's Honours List, Upper Year Term Distinction, Concept Entrepreneurship Funding Recipient
- Scholarships: Faculty of Math Scholarship, President's Scholarship of Distinction, CS International Student Scholarship

## » SKILLS

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**LANGUAGES:** Python, C++, C, JavaScript, SQL, Dart, R, HTML, CSS, Schema

**TECHNOLOGIES:** Node.js, Flutter, Express.js, Angular.js, Django, MongoDB, Firebase, OpenCV, Pandas, Tensorflow

**TOOLS:** Docker, Git, MySQL, SQLite, Postman, Selenium WebDriver, Matplotlib, Jira, Jenkins, LaTeX, OAuth, Passport

## » RELEVANT EXPERIENCE

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### Unite

July 2020 - August 2020

#### Lead Full Stack Developer · Waterloo, ON

- **Promoted** to Lead Full Stack Developer for excellent performance. Led a team that was in charge of designing, developing, testing, and documenting new and existing features for Unite's web applications.
- **Saved \$20,000** for the company by changing the existing codebase to exclude Google's restricted scopes. Successfully led the security assessment verification from Google with a turnover time of just 2 days.
- Decreased product delivery time from **2 days to 10 seconds** by developing and integrating a custom Node.js module that automates deployment via direct addition of the product to the user's account.

#### Full Stack Developer · Waterloo, ON

May 2020 - June 2020

- Designed and developed a social community platform from scratch using Node.js for the company's users to come together, demo, and vote for their favourite products in a record time of under **2 weeks**.
- Search Engine Optimized company's main website which resulted in a **65% increase** in daily visitors over 4 weeks.
- Optimized the existing codebase by compressing heavy content and prioritizing above the fold content which resulted in a 45% decrease in loading time and a **110% increase** in Google PageSpeed Index score.

### Aviconn

June 2018 - July 2018

#### Quality Assurance Intern · India

- Received training in automated software testing with Python, BDD, Selenium WebDriver, and Postman, focusing on black-box and white-box testing of web applications and REST APIs.
- Conducted multiple tests on home automation products, alarm automation, and secured door access.
- Collaborated with multiple mock teams to develop, design, and enhance automation test suites.

## » PROJECTS

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### AlgoTrading Bot | Pandas, NumPy

December 2020

- Developed a stock trading bot that has been backtested with an ROI of 18% over 4 months.
- Implemented a strategy that combines Renko charts with MACD indicator and applied it against high activity stocks.
- Strengthened the portfolio by using the Piotroski F-Score to assess the firm's financial strength, selling stocks with a high score and rebalancing every quarter.

### Safe Crowds | OpenCV, Pandas, Tensorflow, Matplotlib, Scikit-learn

September 2020

- Used YOLOv3 based on Darknet with OpenCV to detect people who are not adhering to social distancing guidelines.
- Implemented a perspective mapping algorithm to calculate the real-time distance between objects using references.
- Created real-time hotspots by analyzing violations using K-Means Clustering to assist with contact tracing.