SEBASTIAN SKONTOS

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SUMMARY

Software Engineering and Law student who enjoys problem solving and working in collaborative, agile environments. With hands-on experience delivering automation, web and computer-vision solutions for industry clients. Breadth across **Python, Systems Programming, AWS Cloud Computing** and legal analysis equips me to translate complex requirements into high-impact code. Seeking a **Software Engineer Internship** or **Graduate role** to leverage my expertise.

EXPERIENCE

Casual Academic | School of Computer Science, University of Sydney | *Dec 2024 - Present*
- Develop and deliver engaging tutorial content for **COMP2017: Systems Programming**, focusing on advanced C programming, memory management and concurrency.
- Conduct lecture-style workshops for ~300 students in **INFO1110: Introduction to Programming**, teaching foundational programming concepts through interactive demonstrations.

Software Engineer Internship | Avec Global, Enterprise Applications Team | *Dec 2024 - Feb 2025*
- Developed a Python automation tool to translate NSW container-deposit legislation into a rule-based engine, cutting manual compliance checks from hours to **2 seconds on average per claim**.
- Wrote migration script that **moved** ~**700 IT tickets** to Zendesk in < **10 s**, slashing data-entry time by **98 %**.
- Refactored Excel workflows with pandas & openpyxl, boosting processing throughput by **40 %**.

Machine Learning Developer | Insite Project Solutions | *Jul - Dec 2024*
- **Led 6-person team** to develop a computer vision model for PPE-detection on construction sites.
- Achieved ~**90% mAP** using OpenCV, PyTorch, TensorFlow and YOLOv8.
- Optimized ML pipeline with feature extraction and hyperparameter tuning, improving prediction reliability.
- Collaborated with safety officers to integrate **REST API**, enabling real-time alerts on site cameras.

EDUCATION

University of Sydney | *Bachelor of Engineering Honours (Software) and Bachelor of Laws*   *Feb 2022 - Dec 2025*
- Grade: **83 WAM**
- 2023: 1st place SUMO Hackathon (40+ teams).
- 2024: 1st place COMP3308 AI Cypher Crack.

Newington College | *Higher School Certificate*   *Jan 2016 - Sept 2021*
- Grade: **99.50 ATAR**
- Awards: Runner-up to Dux, School Prefect, Prize for Languages.

EXTRACURRICULAR ACTIVITIES

Sydney University Greek Society (SUGS) | *Treasurer*   *March 2025 - Present*
- Maintained financial records and accounts associated with society activity and sponsor investments.
- Monitored $13,000 cashflow through the society account, allowing the society to host 5 events throughout the year.

SKILLS

- **Languages:** Python, Java, C, SQL, JavaScript, HTML, CSS, Swift
- **Skills:** Git, Firebase, Agile Methodologies, Project Management, AWS, Linux, Docker, Jira
- **Frameworks/Libraries:** Flask, Django, React, Node.js, Gradle, PyTorch, Tensorflow
- **Interests:** Video games, Escape rooms, South Sydney Rabbitohs, Gym

References Available on Request