SERGE BUSLOVSKY

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🏠 San Francisco Bay Area

PROFILE

Experienced engineering leader with a broad spectrum of expertise: embedded software, robotics & computer vision, payments processing.
Proven track record of building & scaling high-performing teams in both large organizations and start-ups.

PROFESSIONAL EXPERIENCE

Cruise | https://www.getcruise.com
2022 - Present | Engineering Manager

Leading the Autonomous Vehicle (AV) Runtime team that is responsible for core platform capabilities for on-AV software development at Cruise.
During the rapid scaling of robo-taxi fleets in 2022 and 2023 I've led the team in accomplishing the following:

- AV software launch & lifecycle enhancements brought the boot-to-departure success rate from ~60% to >90% and unlocked scaling our fleets to hundreds of vehicles across multiple markets.
- Automated fault recovery technology for getting Cruise vehicles back to their missions following a hardware and/or software degradation improved the on-road reliability to sustain the 2023 growth and be ready for 2024 goals of thousands of vehicles.

In 2024, as part of Cruise's investment in core technology, I've led the team in delivering the following key projects:

- Distributed process management - migration from a monolithic architecture to a flexible software lifecycle management solution with fine-grained control over software configurations & resource allocation.
- Inter-process communication - migration to a next generation IPC solution that enables passing hundreds of thousands of messages per second between software components with minimal latencies.

These achievements were made possible through continued team growth in the following areas:

- Scope Expansion: expanded the team's scope beyond core maintenance to achieve holistic ownership of AV platform software. Fostered proactive investments in core technology to enable strategic enhancements to future-proof the platform.
- Team Growth & Development: doubled the team size and supported multiple team members in advancing to next-stage technical leadership roles.
- KPI-Driven Execution: established a KPI- and OKR-driven culture to effectively balance operational needs with strategic platform enhancements, ensuring measurable outcomes.

Clover | https://www.clover.com
2018 - 2022 | Senior Manager
2013 - 2018 | Principal Engineer

Joined the company at an early stage (under 20 employees) and contributed to many different areas of the software stack:

- Led the design and implementation of Clover Secure Payments application - essential functionality for Clover Terminals that allows acceptance of card-present payments (chip, contactless, magnetic stripe). This was a distributed application running on Android for rich UX and a secure application on a separate microcontroller running FreeRTOS.
- Played a pivotal role in achieving EMV, Contactless (Visa, MasterCard, Amex, Discover, Interac, JCB) and PCI PTS certifications for Clover terminals that allowed launching Clover Mobile, Mini, Flex and Station products.
- Led implementation of integration layers with multiple payment acquiring systems in different regions (North America, EMEA, LATAM).
- Built a team of engineers working on core payments infrastructure in Clover HQ, trained multiple regional and international teams.
- Contributed to international launches of Clover in UK, Ireland, Germany, Austria, Canada & Argentina.

RecycleBank | 2012 – 2013 | https://www.recyclebank.com
Engineer Manager
Led an offshore team of developers working on core product enhancements for the e-commerce solution, worked

cross-functionally with product management on incremental product development.

OnTap | 2010 – 2011 | https://www.ontapgroup.com
Software Engineer
E-commerce systems development for a diverse set of clients.

SmartyMedia | 2006 – 2009 | http://smartymedia.biz
Software Developer
High-traffic news website development & Content Management Systems for various clients.

PERSONAL PROJECTS

Ticket To Ride Score Calculator app | 2019 | Google Play Store | Website

Built an Android application from an idea all the way to production deployment - it allows players of a popular board game to take a picture of the game board with their phone's camera and compute the score automatically instead of tedious manual process.
The app was accepted extremely well by the board game community, it has >10K downloads and holds an average 4.5 rating in Google Play Store.
It was a fun application of Convolutional Neural Networks on constrained platforms through mobile-optimized DenseNet architecture and application of advanced feature matching methods from OpenCV.

EDUCATION

Ukraine National Shevchenko University in Kyiv
Bachelor of Computer Science