Ty Yiu's CV | CV

Ty Yiu

Futurist, Technologist, Creative Hacker.

20.Nov.1998 | Male | German

Tyiu@me.com | My website | Github

Currently

Data quality enhancement of product information using machine learning systems & process automation at "APS Glass & Bar Supply GmbH"

Specialized in

Identification of potential optimisations in operational processes, integration possibilities of machine learning, data leveraging and all sorts of technological implementation techniques.

Research interests

Digital & intangible value creation & capture.
Automata theory application in operational processes, practical approaches to increasing technological adoption (internal motivation & external pressure)

Education

2006–2015 **Sachenwald Gymnasium, Reinbek**

- Specialisation in Theoretical Physics

2015–2017 **St. Leonards international school, St. Andrews**

- International Baccalaureate
- Specialisation ("higher level") in Physics, Economics & English literature
- "standard level" subjects: German, chemistry, french, math

2017–2020 **Hult international business school, London**

- Triple accredited Bachelors of Business Administration

- Capstone programme: Hult founders lab, creating a startup in a semester
  - Small enterprise integration of plug-play automated systems
- Thesis: Digital business hacking - moving to intangible value creation and increasing efficiency in transforming processes
- Diploma: here

Experience

`10 2015` **Airbus**

- Position: Intern
- Responsibilities: Observing processes in aeroplane manufacturing & planning of the A380

`08/09 2015` **Brand:Marke - Digital advertising agency**

- Position: Intern
- Employer: Brand:marke hamburg GmbH, Nils Julius
- Responsibilities:
  - Conception of innovative (digital) advertising campaigns
  - Web design
  - Management for "FDP Fraktion Hamburg" re-branding & concrete design for new website

`08/09 2015` **Kontor Records - Music label**

- Position: Intern
- Employer: Kontor Records GmbH, Jens P. Thele
- Responsibilities:
  - Overhaul & Redesign of the 'kontor.tv' youtube channel branding
  - Customer care & support
  - Experience innovation & digital rewards to online listeners

`2017` **Ciu "Die Bar" - Cocktailbar**

- Position: Bartender
- Responsibilities:
  - Excellent customer facing service provision

`2017` **Bayside Scharbeutz - Bay's Nightclub**

- Position: Lead Bartender
- Responsibilities:
  - Delegation of service staff
  - Ensuring smooth running operations

`2017` **FirstClass Mobil - Car rental service**

- Position: Driver
- Responsibilities:
  - First class customer facing service provision

`Mid 2017` **Porsche Drive**

- Position: General Event Manager
- First Hamburg division / establishment
- Management of Porsche Drive presence and operations at 'Porsche European Open' event

`Early 2020` **Ager - Digital services**

- Position: Owner & CEO
- Responsibilities:
    - All programming, management, marketing; all operations & administration
- Germany wide spanning small hospitality business Covid-19 relief programme in cooperation with German corporate enterprise "Thomas Henry".
- Thousands of monthly users
- Facebook Site

`Aug 2020 - today` **APS Glass & Bar Supply**

- Position: IT specialist
- Responsibilities:
    - Data quality enhancement of product information using machine learning systems
    - Automation of operational processes
    - Internal & External consulting in terms of the covid-19 pandemic & digisation trends

Skills & competencies

Fluent languages spoken

- German, English, French
- Intermediate languages:
    - Spanish

Other competencies

- Digital: 3D CAD, virtual reality & augmented reality experiences, Adobe suite (Photoshop, InDesign etc.), MS office suite, Google suite, 3D animations (blender, unreal engine)
- Technical: electronic circuits & assembly, soldering, digital connection to logic controllers (esp8266's, arduino's, raspberry pi's)
- Other: networking, data storage redundancy,

Computing competencies

Languages

Python for machine learning, data science & computer vision (tensorflow, pytorch, scikit-learn, numpy, matplotlib, pandas, opencv) - Haskell or C (++) for high performing programs - Js for progressive webapps (reactjs, angularjs) - Swift for ios apps (besides building hybrid-apps with web technologies like dart, flutter, ionic or amp)

Tools & Frameworks

Networking & Backend

- Server: linux, flask, express, apollo
- Server communication: graphql > rest, relay / apollo
- Cloud operations: google cloud, continuous integration & deployment
- Database Management: SQL, MySQL, SQL Maestro, MariaDB, MongoDB

The Command-line

- Linux: Bash/Zsh for automated scripting, Git, Vim as my text-editor, Tmux as session manager

Software Projects

Most of the total code of the listed projects below is open source.

2019 Digitising a city into a 3d virtual world

- Using satellite data and openmap public data, we created a prototype proof of concept, that a whole city could be turned into a virtual copy.
- Contributors: Felix Kahlbrock
- Video demo

2019 Adid (ios app)

- The easiest way to share contact details offline via QR code with newly acquainted strangers.
- No wifi, bluetooth, airdrop or similar required.

2020– Virtual Identity Card (personal info website)

- After the positive feedback from "Adid", a cross-platform accessible view was built, to allow users to share their profile data via a link.
- Interactive demo
- Video demo

2020– Digital menu (hospitality / retail)

- In context of the 2020 pandemic, the touching of menus in e.g. restaurants became irresponsible.

- Part of covid-19 aid programme for gastronomy & retail businesses.
- Interactive demo

2020- **Contact-tracing software** (hospitality / retail)

- Automatic customer logging for hospitality required in context of the covid-19 induced pandemic.
- Germany wide spanning small hospitality business covid-19 relief programme in cooperation with "Thomas Henry".

2020- **Feedback system** (Experience Management)

- Full-stack, graphql powered, serverless, cloud platform, with API for custom integration.
- B2B plug & play customer, employee, product, support, event, . . . feedback system.
- Create campaign & customise and use qr codes in-situ for access.

Notable achievements

2015-2016 Managing director in "Young Enterprise" programme, with received certification.

2019 Mobile application design course, with adjunctive partner "Zanshin labs", absolved during the "Hult international BBA programme", with received certification.

May 2019 **Presidents Summit**

- Business conference with multi-national corporation's CEOs in Kopenhagen
- Networking events & further voluntary education

2020 The contact tracing software in deployment and use in restaurants, cafés & bars all over germany, surpassed 25,000 active users in its first month online. At this time, there are 500+ new users every week and 100,000+ interactions per month.

2020 Code repositories of mine have been stored on silver-halide film in the artic, preserved and securely stored forever.