

CURRICULUM VITAE

Derrek Chow

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INTERESTS

Human-Computer Interaction, tangible and spatial interfaces, creative computing, novel interfaces and input devices, permacomputing, new me

RESEARCH

Undergraduate Research Assistant, Expressive Input & Interaction Group
University of Waterloo, Sep 2020 – Aug 2021

Undergraduate Visiting Researcher, NTU HCI Lab
National Taiwan University, Jan – Mar 2021

PROFESSIONAL

Interaction Design Intern, RNDR
The Hague, Netherlands, Sep – Dec 2021

Software Engineering Intern, StackAdapt
Toronto, Canada, Sep – Dec 2019

Software Developer Intern, D2L Labs, Desire2Learn
Toronto, Canada, Jan – Apr 2019

Software Developer Intern, Tulip Retail
Kitchener, Canada, May – Aug 2018

EDUCATION

B.SE Software Engineering, University of Waterloo, 2017 – 2022

selected courses Advanced Topics in HCI: Experimental Design (**graduate level**)
Human-Computer Interaction

SKILLS

| | |
|---------------------|---|
| Programming | Python, Javascript, Java, C++, C#, Ruby, Clojure, PHP |
| Web | React, Rails, Node, Backbone.js, Flask, jQuery, SQL, Cypher, HTML/CSS |
| Design | graphic + brand + interaction design, Figma, Origami Studio |
| Audio/Visual | TouchDesigner, Processing, Orca, openFrameworks, OPENRNDR, GLSL, Unity |
| Research | rapid prototyping, physical + electronic fabrication, interviewing, ideation, concept development |

PERFORMANCES

Algo Kickback, SF AV Club
San Francisco, United States, Jul 23, 2021

TALKS

Expressive Input & Interaction Group, University of Waterloo
Waterloo, Canada, Oct 28, 2021

The Human Computer Interaction Lab, Hasso Plattner Institute
Postdam, Germany, Sep 15, 2021

TEACHING

Teaching Assistant (unofficial), Royal Academy of Art (KABK), Oct – Dec 2021
coding course for the *Non Linear Narrative* master's programme

PROJECTS

| | |
|--------------------------|---|
| Computational Art | visual and audio explorations in art and computers |
| Point2Speech | novel input device that speaks out loud text on a page when pointed to |
| Automatic Cannon | self-aiming cannon that fires at moving targets |
| Hack the Fridge | smart fridge that suggests recipes and tracks expired food |
| Pinch Perfect | digital theremin (musical instrument) controlled by hand gestures |
| Hungr.ai | AI powered game of Hungry Hungry hippos |
| UW Flow | course review platform with 10 mil. total page views and 30k+ monthly users |
| From the Intercom | music and film blog and magazine for Asian-American artists |

REFERENCES

Daniel Vogel, University of Waterloo
Associate Professor, Cheriton School of Computer Science

Quentin Roy, University of Waterloo
Postdoctoral Fellow, Cheriton School of Computer Science

Boyd Rotgans, RNDR
Co-founder and Partner

Jeroen Barendse, RNDR
Co-founder and Partner, Founder of LUST

Mike Chen, National Taiwan University
Professor, Department of Computer Science